

April 28, 2022

U.S. Environmental Protection Agency, Region 9
Drinking Water Protection Section (WTR 4-2)
75 Hawthorne Street
San Francisco, California 94105

Attention: David Albright, Manager, Ground Water Office

Subject: First Quarter 2022 Monitoring Report
Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FY11-1

Dear Mr. Albright:

Florence Copper Inc. (Florence Copper) is regulated under UIC Permit No. R9UIC-AZ3-FY11-1, issued December 20, 2016, for a Production Test Facility (PTF). The facility began active operations on December 15, 2018. The rinsing demonstration for the PTF began on June 26, 2020. This report outlines the reporting requirements in accordance with Part II.G.2 of that Permit.

Background Information

The Florence Copper Project is an in-situ copper extraction facility subject to two related permits issued by the U.S. Environmental Protection Agency (USEPA) and the Arizona Department of Environmental Quality (ADEQ).

Aquifer Protection Permit (APP) Covering the Test/ Pilot Facilities and Future Operations (Sitewide APP):

- ADEQ APP No. P-101704 (LTF 88973) dated April 30, 2021.

Prior to the amended permit issued on December 8, 2020, the Florence Copper Project was regulated under APP No. P-101704 (LTF 65804) dated October 13, 2017.

Underground Injection Control (UIC) Permit Covering the Current PTF:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated December 20, 2016.

This permit authorizes operation of the PTF and sets forth separate monitoring requirements to be applied at the PTF, which lies within the area covered by the APP. The UIC facilities and monitoring wells are identified on Figure 1. The configuration of the PTF wellfield is shown on Figure 2. The facility received authorization to proceed with pre-operational activities on July 13, 2017, and the PTF wellfield was completed and began operations on December 15, 2018. The rinsing activities for the PTF began on June 26, 2020. Solutions from the wellfield continued to be processed through the Solvent Extraction/Electrowinning (SX/EW) plant to produce copper until October 29, 2020. Wellfield rinsing activities will continue in 2022.

This report documents monitoring activities required by the UIC permit during Q1 2022. Reporting for the APP is performed separately; however, some information pertains to multiple permits and is reported accordingly.

PTF Operations Quarterly Reporting

- **Part II.G.2.a – Map of Operational Status and Groundwater Contours**

The monthly groundwater contour maps are included as Attachment 1. The operational status of the PTF facility was ACTIVE during Q1 2022.

- **Part II.G.2.b – Table and Graphs of Injected and Recovered Volumes**

The daily cumulative injection and recovery volumes and the daily percent recovery to injection volume values are provided in tabular and graphical format in Attachment 2. Throughout Q1 2022, the extracted volume has consistently exceeded the injected volume by 10 percent or more, and the monthly average injection rate remained below the 240-gallon-per-minute limit.

- **Part II.G.2.c – Table and Graphs of the Well Head Measurements in the PTF**

The daily average head measurement values for the observation wells and recovery wells are provided in tabular and graphical format in Attachment 3. The hydraulic gradient has been maintained with a greater than 1-foot differential as a daily average for all paired wells throughout Q1 2022.

Florence Copper reported to ADEQ on March 28, 2022, the daily average for the hydraulic gradient between recovery well R-01 and observation well O-01 was less than 1 foot on March 27. The hydraulic gradient for this well pair returned to pre-alert conditions the next day on March 28 at 8.24 feet. The timeframe for this alert level (AL) exceedance occurrence did not trigger a contingency plan under UIC permit II.H.1.b. On April 4, 2022, Florence Copper explained in a letter to ADEQ that there was electrical interference with the transducer in observation well O-01 during pumping activities, resulting in incorrect measurements. The conclusion resulted in nullification of the exceedance, and ADEQ concurred. Therefore, there were no exceedances of the AL for the daily average water level comparisons for the inward hydraulic gradient. As a corrective action, water level measurements will be taken by hand when new pumps are installed to check the transducer readings.

- **Part II.G.2.d – Table and Graphs of Fluid Electrical Conductivity Measurements**

Fluid electrical conductivity (EC) values are provided in tabular and graphical format in Attachment 4. As expected, fluid EC in the injection and observation wells was comparable during the monitoring period. Throughout the monitoring period, the PTF wellfield was being rinsed and no injection of in-situ copper recovery fluids took place.

- **Part II.G.2.e – Table and Graphs of Bulk Electrical Conductivity Measurements**

Bulk EC values are provided in tabular and graphical format in Attachment 5. No bulk EC AL exceedances occurred during Q1 2022.

- **Part II.G.2.f – Table and Graphs of Monitor Well Water Levels and Analytical Results**

The Q1 2022 Compliance Monitoring Report is provided in Attachment 6 and presents the tabular results of groundwater elevations, analytical results, field parameters, and ALs and aquifer quality limits for wells regulated under the UIC permit and APP. The Compliance Monitoring Report also provides a narrative summary of the Q1 2022 monitoring activities, a discussion of exceedances, and graphical presentation of monitoring results for a select set of parameters since the inception of monitoring.

- **Part II.G.2.g – Results of Monthly Lixiviant Organic Analysis**

The analytical results for monthly lixiviant organic analysis are provided in tabular format in Attachment 7. Total monthly organic concentrations were below the maximum allowable average in Q1 2022.

- **Part II.G.2.h – Results of Monitoring Required if Injection Fluid is Modified**

During Q1 2022, rinsing activities continued in the PTF. As part of the ongoing rinsing activities, sodium bicarbonate was added to the injection fluid beginning on January 26, 2022. Routine monthly analysis of the rinsing solution was completed during Q1 2022 and will continue during the rinsing demonstration.

- **Part II.G.2.i – Results of Mechanical Integrity Testing**

Temperature logging of multi-level sampling wells WB-01, WB02, WB-03, and WB-04 were conducted during Q1 2022 to demonstrate mechanical integrity. A summary of results is provided in Attachment 8. Temperature logs in each of the four multi-level sampling wells showed no anomalies that would indicate there is flow outside of the well casings.

- **Part II.G.2.j – Results of Annular Conductivity Device (ACD) Monitoring**

The results of the Q1 2022 well bore annular EC monitoring are provided in Attachment 9. Annular EC readings have remained approximately constant or increased slightly in 9 of the 11 wells since monitoring began in Q3 2018. Annular EC has decreased in wells O-04 and O-06 during that same time. The results of the monitoring indicate the absence of injected fluid at the ACD locations. No ALs have been exceeded.

- **Part II.G.2.k – Summary of Plugging and Abandonment Activity**

No wells associated with this permit were abandoned during Q1 2022; therefore, no abandonment report is included for this monitoring period. For future quarterly compliance reports, the Well Abandonment Report will be provided in Attachment 10.

- **Part II.G.2.l – Summary of Closure Operations**

The SX/EW plant ceased operation on October 29, 2020. Wellfield rinsing that began in 2020 has continued through Q1 2022. No closure activities were initiated in this monitoring period.

- **Part II.G.2.m – Table of Monthly Casing Annulus and Injection Pressures**

Monthly maximum, minimum, and average injection pressures are provided in Attachment 11. There were no exceedances of the injection pressure limit during Q1 2022.

- **Part II.G.2 – Analytical Results for Monthly Treated Water Samples**

Monthly analytical results for samples of the treated water are provided in Attachment 12.

- **Appendix H – Migratory Bird Landings and Mortality**

Daily inspection of the Process Solution Impoundment was conducted to record any migratory bird landings and/or identify any migratory bird mortality. As summarized in Attachment 13, no bird landings were observed during Q1 2022.

Please call (520) 316-3710 with any questions regarding the content of this document.

Sincerely,

Florence Copper Inc.



Brent Berg
General Manager

FLORENCE COPPER INC.

1575 W. Hunt Highway, Florence, Arizona 85132 USA florencecopper.com

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Enclosures:

Figure 1 – Groundwater Monitoring Area

Figure 2 – PTF Wellfield

Attachment 1 – Map of Operational Status and Groundwater Contours

Attachment 2 – Table and Graphs of Injected and Recovered Volumes

Attachment 3 – Table and Graphs of the Well Head Measurements in the Production Test Facility

Attachment 4 – Table and Graphs of Fluid Electrical Conductivity Measurements

Attachment 5 – Table and Graphs of Bulk Electrical Conductivity Measurements

Attachment 6 – Table and Graphs of Monitor Well Water Levels and Analytical Results

Attachment 7 – Results of Monthly Lixiviant Organic Analysis

Attachment 8 – Results of Mechanical Integrity Testing

Attachment 9 – Results of Annular Conductivity Device Monitoring

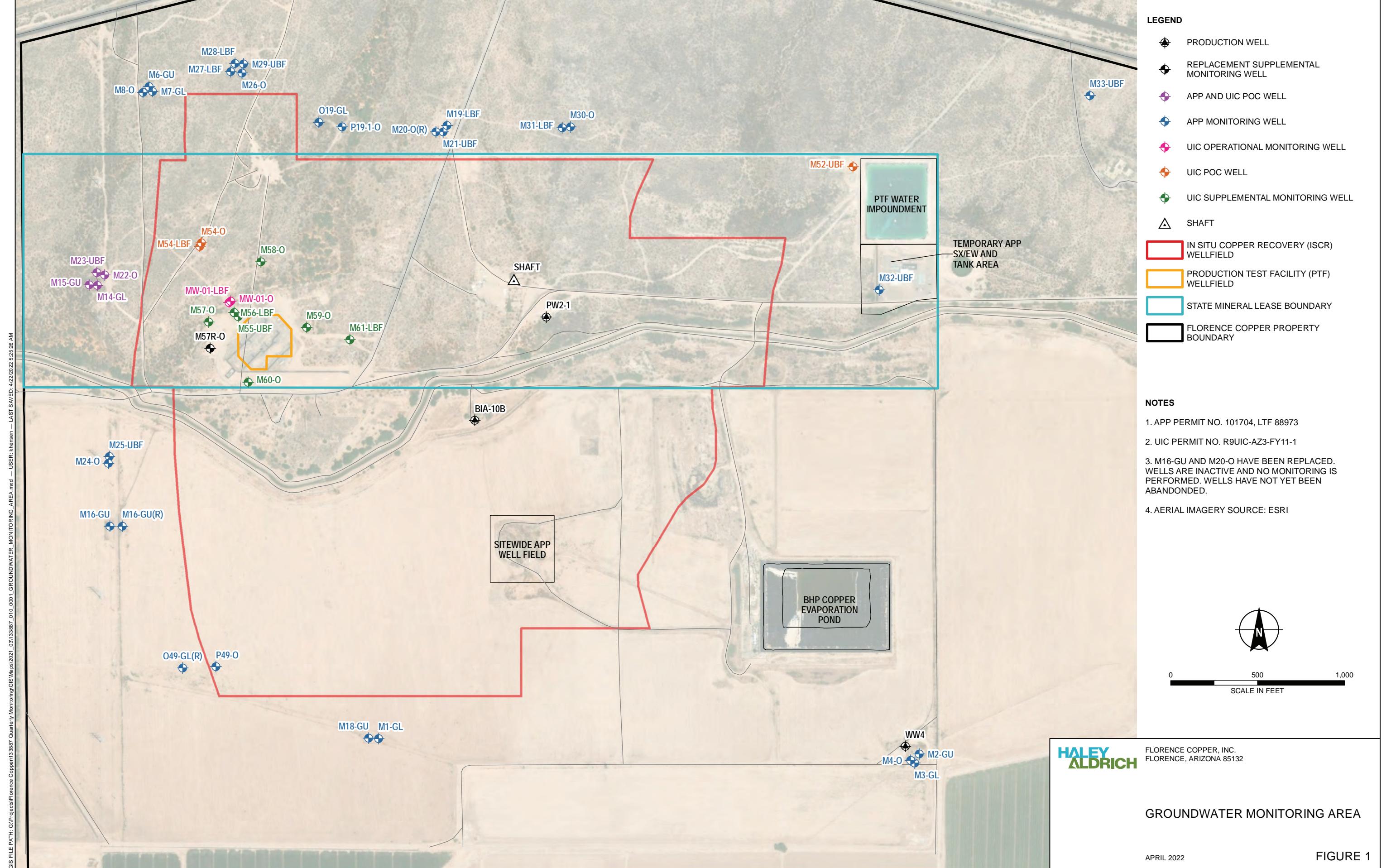
Attachment 10 – Summary of Plugging and Abandonment

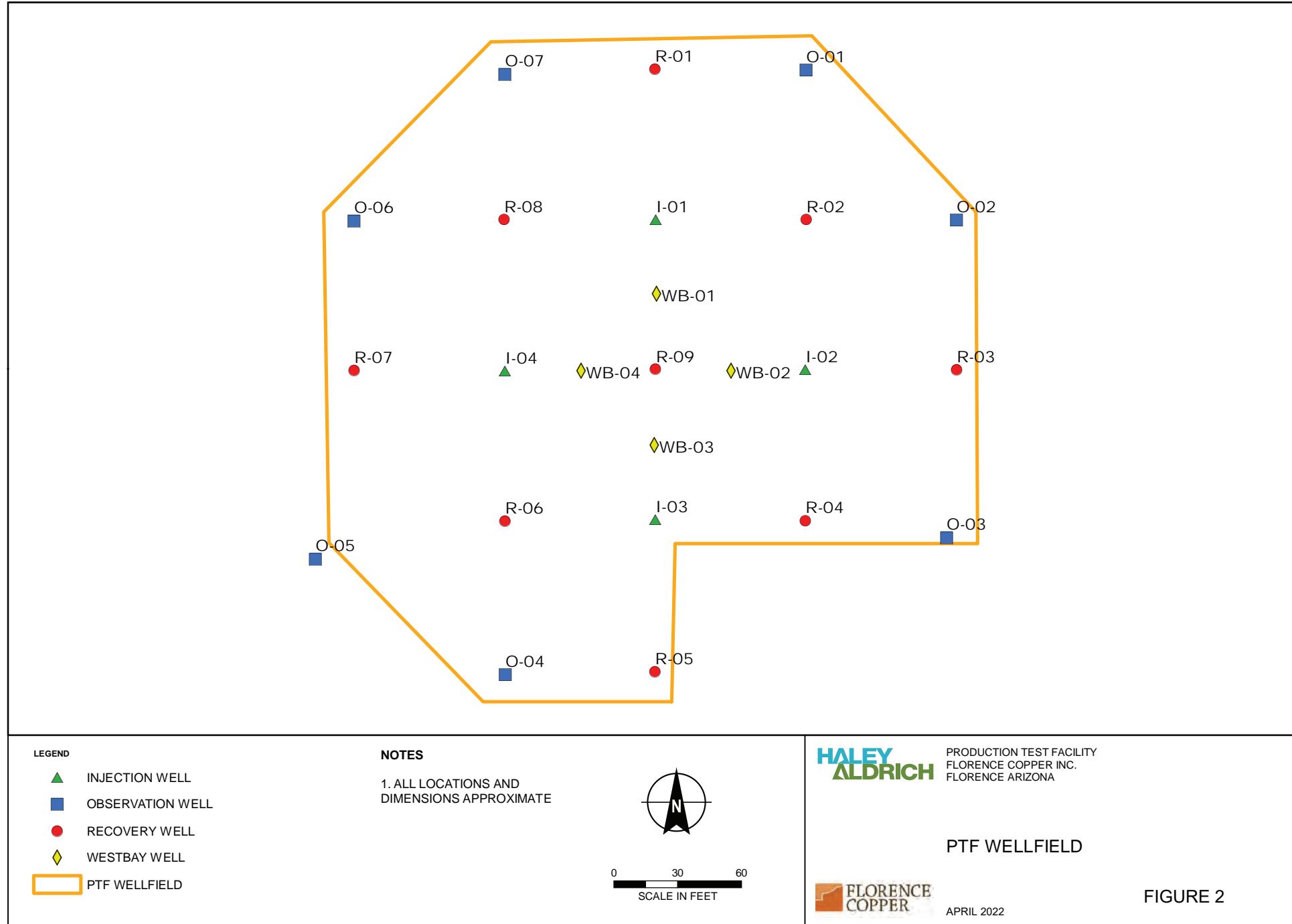
Attachment 11 – Table of Monthly Casing Annulus and Injection Pressures

Attachment 12 – Results for Monthly Treated Water Samples

Attachment 13 – Migratory Bird Landings

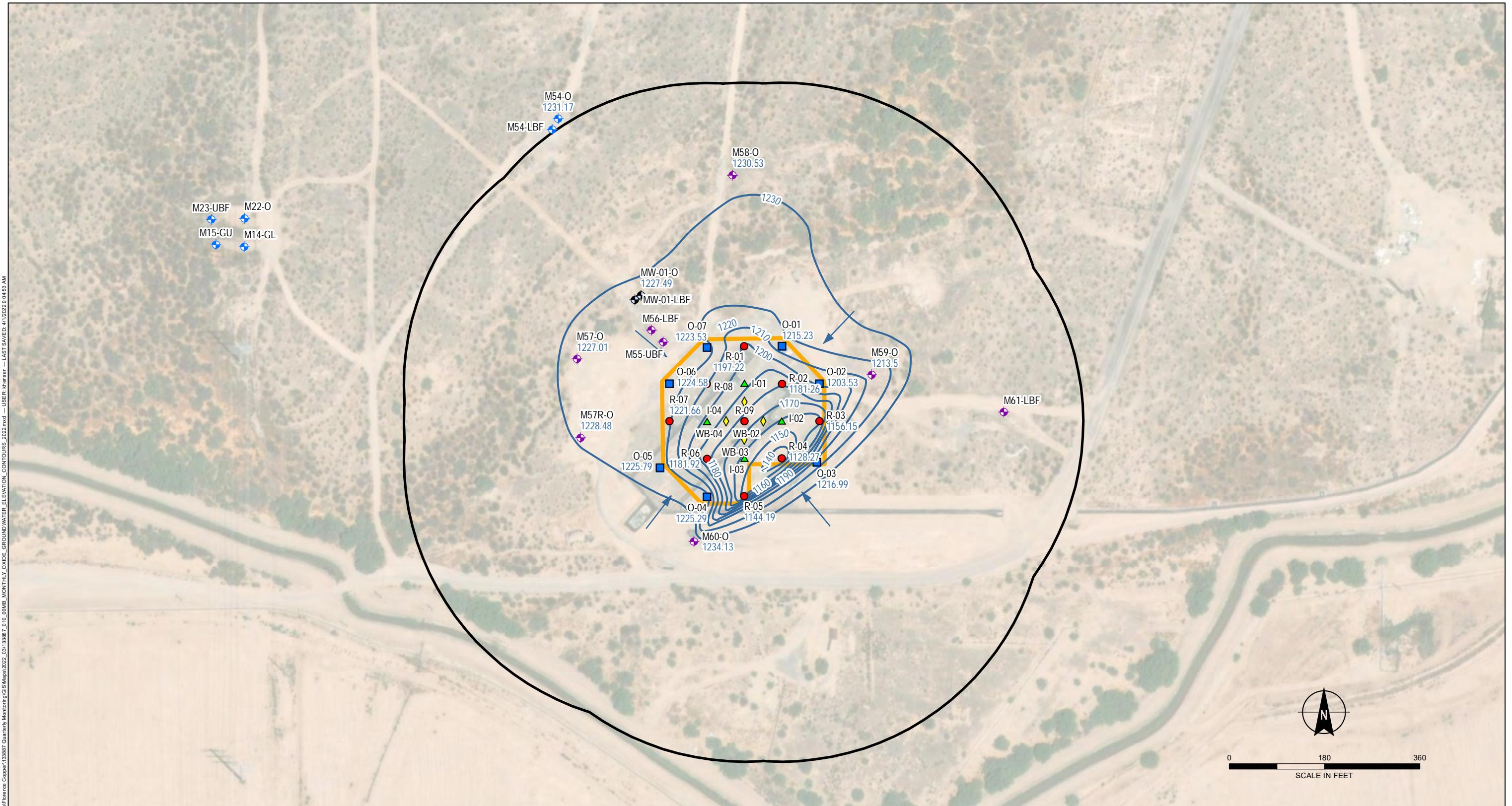
FIGURES





ATTACHMENT 1

Map of Operational Status and Groundwater Contours



LEGEND

- OBSERVATION WELL
- ◆ SUPPLEMENTAL MONITORING WELL
- ▲ INJECTION WELL
- RECOVERY WELL
- ◆ WESTBAY WELL
- ◆ POINT OF COMPLIANCE (POC) WELL

◆ OPERATIONAL MONITORING WELL
 — GROUNDWATER ELEVATION CONTOUR, 10-FT INTERVAL; DASHED WERE INFERRED
 → GROUNDWATER FLOW DIRECTION
 ■ POLLUTANT MANAGEMENT AREA

PRODUCTION TEST FACILITY (PTF) WELLFIELD
 WELL ID
 M60-O
 1234.13
 GROUNDWATER ELEVATION

NOTES

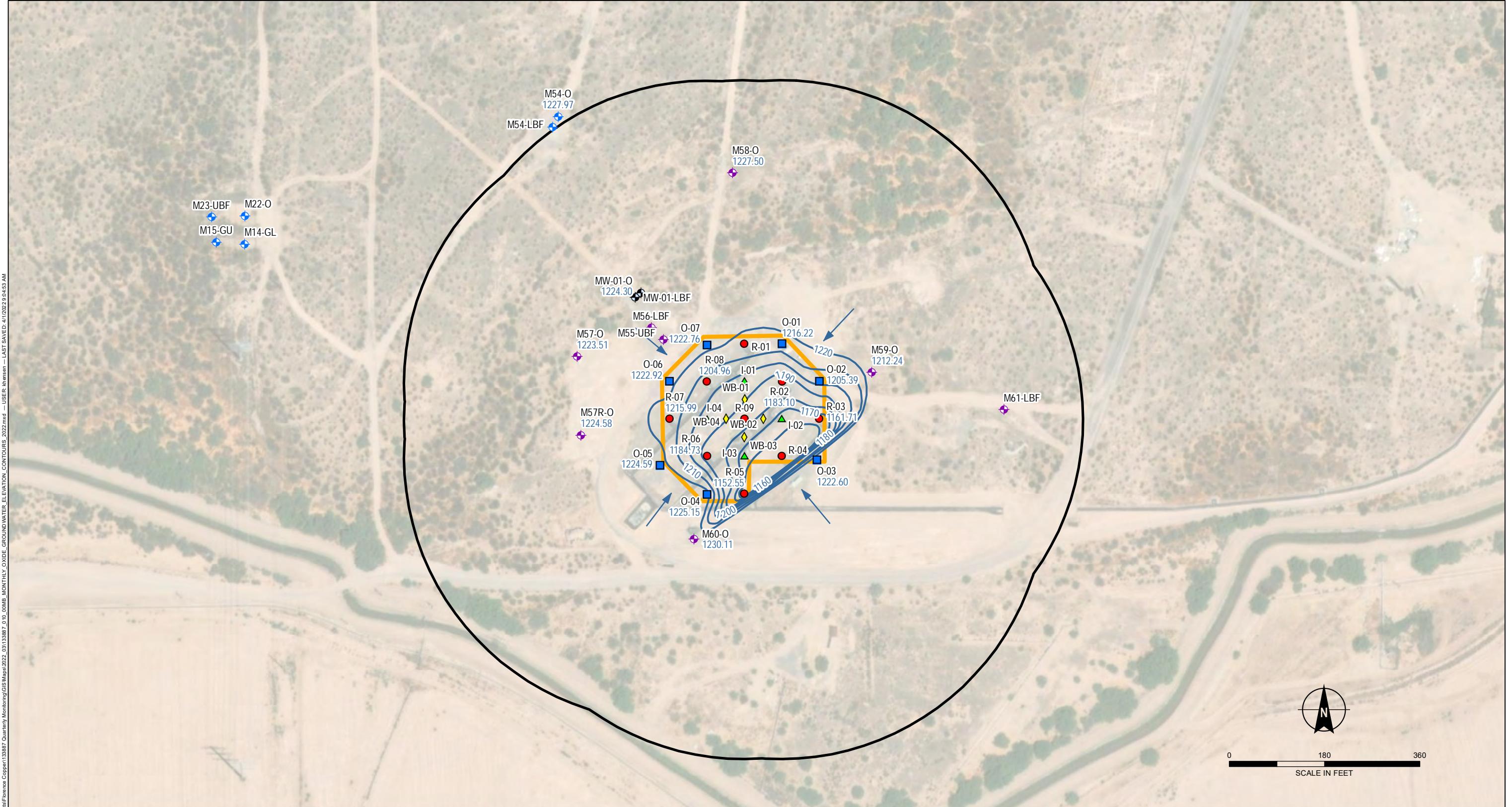
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
3. WATER LEVEL DATA WAS COLLECTED 17 JANUARY 2022.
4. WELLS WITH ID AND ELEVATION LABEL WERE USED IN CONTOURING.
5. WELLS R-08 WAS BEING REDEVELOPED WHEN WATER DATA WAS COLLECTED.
6. R-09 WAS BEING USED FOR INJECTION WHEN WATER DATA WAS COLLECTED.
7. WELLS I-01, I-02, I-03, I-04 WERE BEING USED FOR RECOVERY WHEN WATER DATA WAS COLLECTED; HOWEVER, DATA COULD NOT BE COLLECTED.
8. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

PRODUCTION TEST FACILITY
FLORENCE COPPER, INC.
FLORENCE, ARIZONA

OXIDE GROUNDWATER
ELEVATION CONTOURS
JANUARY 2022

FIGURE 1



LEGEND

- OBSERVATION WELL
- ◆ SUPPLEMENTAL MONITORING WELL
- ▲ INJECTION WELL
- RECOVERY WELL
- ◆ OPERATIONAL MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR, 10-FT INTERVAL; DASHED WERE INFERRED
- GROUNDWATER FLOW DIRECTION
- ◆ POINT OF COMPLIANCE (POC) WELL

PRODUCTION TEST FACILITY (PTF) WELLFIELD

WELL ID
M60-O
GROUNDWATER ELEVATION
1230.11

NOTES

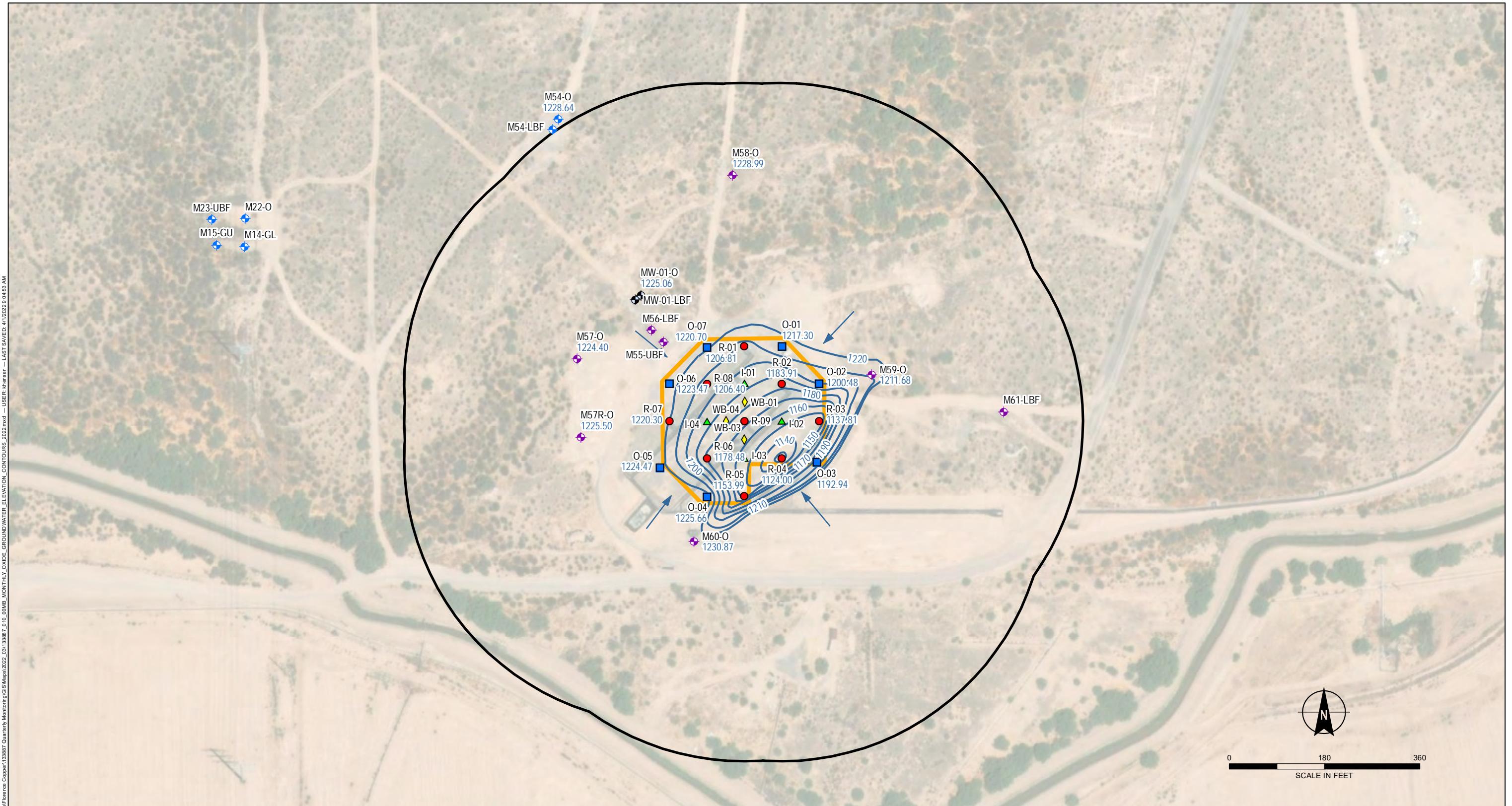
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
3. WATER LEVEL DATA WAS COLLECTED 9 FEBRUARY 2022.
4. WELLS WITH ID AND ELEVATION LABEL WERE USED IN CONTOURING.
5. WELLS R-01 AND R-04 WERE BEING REDEVELOPED WHEN WATER DATA WAS COLLECTED.
6. R-09 WAS BEING USED FOR INJECTION WHEN WATER DATA WAS COLLECTED.
7. WELLS I-01, I-02, I-03, I-04 WERE BEING USED FOR RECOVERY WHEN WATER DATA WAS COLLECTED; HOWEVER, DATA COULD NOT BE COLLECTED.
8. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

PRODUCTION TEST FACILITY
FLORENCE COPPER INC.
FLORENCE, ARIZONA

OXIDE GROUNDWATER
ELEVATION CONTOURS
FEBRUARY 2022

FIGURE 2



LEGEND

- OBSERVATION WELL
- ◆ SUPPLEMENTAL MONITORING WELL
- ▲ INJECTION WELL
- RECOVERY WELL
- ◆ WESTBAY WELL
- ◆ POINT OF COMPLIANCE (POC) WELL

— GROUNDWATER ELEVATION CONTOUR, 10-FT INTERVAL; DASHED WERE INFERRED
→ GROUNDWATER FLOW DIRECTION
■ POLLUTANT MANAGEMENT AREA

■ PRODUCTION TEST FACILITY (PTF) WELLFIELD
— WELL ID
— GROUNDWATER ELEVATION
M60-O 1230.87

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.
3. WATER LEVEL DATA WAS COLLECTED 3 MARCH 2022.
4. WELLS WITH ID AND ELEVATION LABEL WERE USED IN CONTOURING.
5. R-09 WAS BEING USED FOR INJECTION WHEN WATER DATA WAS COLLECTED.
6. WELLS I-01, I-02, I-03, I-04 WERE BEING USED FOR RECOVERY WHEN WATER DATA WAS COLLECTED; HOWEVER, DATA COULD NOT BE COLLECTED.
7. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

PRODUCTION TEST FACILITY
FLORENCE COPPER, INC.
FLORENCE, ARIZONA

OXIDE GROUNDWATER
ELEVATION CONTOURS
MARCH 2022

FIGURE 3

ATTACHMENT 2

Table and Graphs of Injected and Recovered Volumes

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. January 2022 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	Min % recovery
1/1/2022	140,900	396,600	2.81	281
1/2/2022	140,800	390,900	2.78	278
1/3/2022	140,800	403,100	2.86	286
1/4/2022	139,000	396,700	2.85	285
1/5/2022	142,900	396,500	2.77	277
1/6/2022	141,500	393,900	2.78	278
1/7/2022	144,500	375,300	2.60	260
1/8/2022	144,500	375,100	2.60	260
1/9/2022	142,000	362,000	2.55	255
1/10/2022	142,700	363,100	2.54	254
1/11/2022	142,600	360,800	2.53	253
1/12/2022	140,000	361,600	2.58	258
1/13/2022	141,100	362,100	2.57	257
1/14/2022	141,100	340,100	2.41	241
1/15/2022	141,600	350,600	2.48	248
1/16/2022	140,100	358,700	2.56	256
1/17/2022	142,800	354,100	2.48	248
1/18/2022	141,100	352,200	2.50	250
1/19/2022	140,500	353,200	2.51	251
1/20/2022	141,700	361,600	2.55	255
1/21/2022	142,500	363,300	2.55	255
1/22/2022	142,100	355,900	2.50	250
1/23/2022	142,900	352,300	2.47	247
1/24/2022	142,000	339,100	2.39	239
1/25/2022	144,300	345,600	2.40	240
1/26/2022	142,800	340,700	2.39	239
1/27/2022	143,900	338,400	2.35	235
1/28/2022	144,900	351,000	2.42	242
1/29/2022	144,400	348,400	2.41	241
1/30/2022	143,600	339,300	2.36	236
1/31/2022	144,500	338,500	2.34	234
JAN Averages	142,261	361,958	2.55	255

JAN Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	99	251

Notes:

% = percent

GPM = gallons per minute

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. February 2022 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	Min % recovery
2/1/2022	143,900	337,600	2.35	235
2/2/2022	144,200	329,600	2.29	229
2/3/2022	143,800	323,200	2.25	225
2/4/2022	141,900	344,900	2.43	243
2/5/2022	143,000	348,000	2.43	243
2/6/2022	143,500	371,300	2.59	259
2/7/2022	142,200	339,800	2.39	239
2/8/2022	143,600	344,100	2.40	240
2/9/2022	144,000	347,900	2.42	242
2/10/2022	143,600	347,500	2.42	242
2/11/2022	142,300	336,400	2.36	236
2/12/2022	140,700	340,100	2.42	242
2/13/2022	140,700	338,100	2.40	240
2/14/2022	142,500	331,100	2.32	232
2/15/2022	141,700	336,400	2.37	237
2/16/2022	140,600	339,600	2.42	242
2/17/2022	141,100	335,200	2.38	238
2/18/2022	140,400	334,500	2.38	238
2/19/2022	141,400	333,200	2.36	236
2/20/2022	139,800	331,500	2.37	237
2/21/2022	139,500	327,800	2.35	235
2/22/2022	139,500	327,200	2.35	235
2/23/2022	141,000	328,900	2.33	233
2/24/2022	140,600	327,300	2.33	233
2/25/2022	142,200	337,400	2.37	237
2/26/2022	142,900	334,700	2.34	234
2/27/2022	141,300	343,200	2.43	243
2/28/2022	141,200	341,700	2.42	242
FEB Averages	141,896	337,793	2.38	238

FEB Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	99	235

Notes:

% = percent

GPM = gallons per minute

VOLUMES WITH PERCENT RECOVERY

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. March 2022 Daily Injection and Recovery Volumes

Date	Daily Injection Volume (gallons)	Daily Recovery Volume (gallons)	Ratio Recovery/Injection	Min % recovery
3/1/2022	140,900	333,400	2.37	237
3/2/2022	141,200	340,300	2.41	241
3/3/2022	140,400	337,700	2.41	241
3/4/2022	141,300	349,700	2.47	247
3/5/2022	141,000	325,200	2.31	231
3/6/2022	140,800	286,100	2.03	203
3/7/2022	140,700	311,500	2.21	221
3/8/2022	142,000	316,000	2.23	223
3/9/2022	141,600	314,800	2.22	222
3/10/2022	140,100	315,200	2.25	225
3/11/2022	142,900	327,600	2.29	229
3/12/2022	141,400	334,100	2.36	236
3/13/2022	140,400	331,700	2.36	236
3/14/2022	137,100	325,100	2.37	237
3/15/2022	82,800	306,200	3.70	370
3/16/2022	144,500	332,600	2.30	230
3/17/2022	144,700	329,800	2.28	228
3/18/2022	143,800	335,000	2.33	233
3/19/2022	143,400	335,300	2.34	234
3/20/2022	144,000	330,200	2.29	229
3/21/2022	144,100	329,000	2.28	228
3/22/2022	131,600	319,600	2.43	243
3/23/2022	116,300	309,200	2.66	266
3/24/2022	141,200	313,500	2.22	222
3/25/2022	146,000	327,400	2.24	224
3/26/2022	145,600	333,200	2.29	229
3/27/2022	145,900	339,800	2.33	233
3/28/2022	146,100	335,400	2.30	230
3/29/2022	146,100	328,300	2.25	225
3/30/2022	146,000	322,300	2.21	221
3/31/2022	145,900	291,900	2.00	200
MAR Averages	139,671	324,745	2.35	235

MAR Averages	Monthly Average Injection Volume (GPM)	Monthly Average Recovery Volume (GPM)
	97	226

Notes:

% = percent

GPM = gallons per minute

Figure 1. Injection vs. Recovery Volumes - January

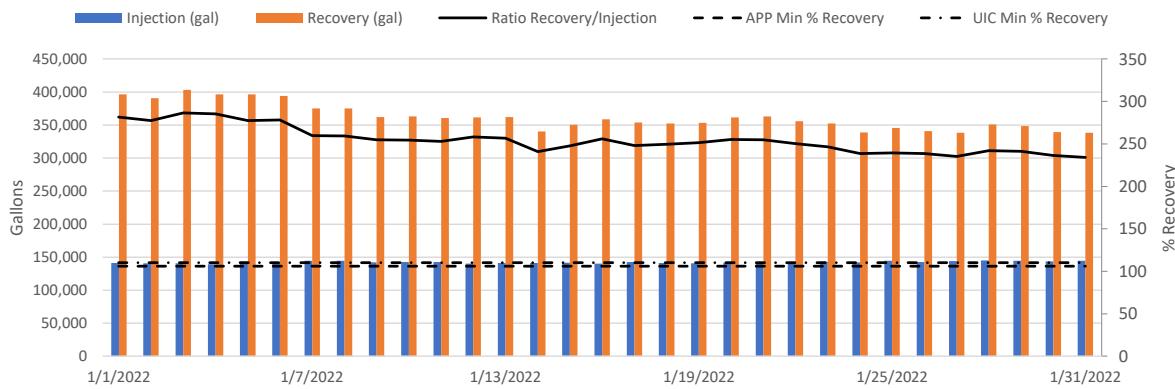


Figure 2. Injection vs. Recovery Volumes - February

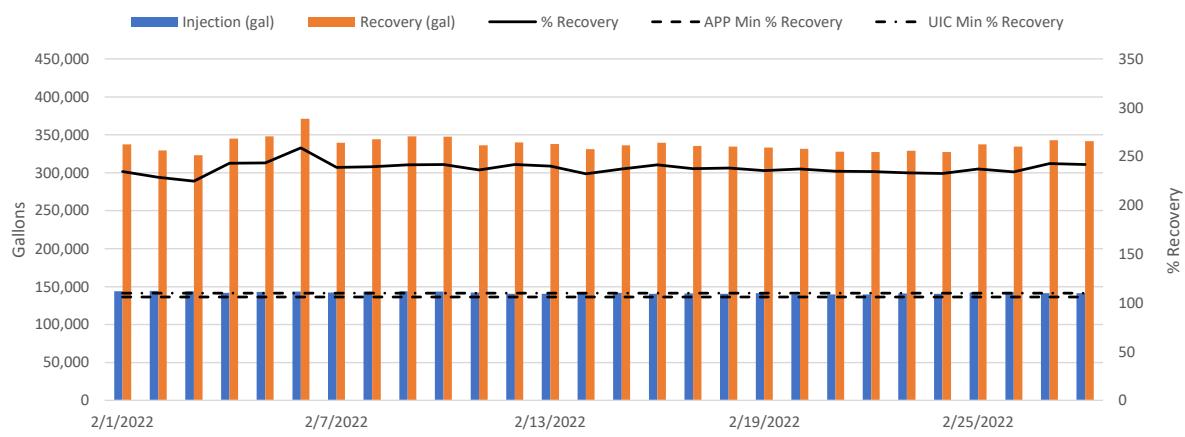
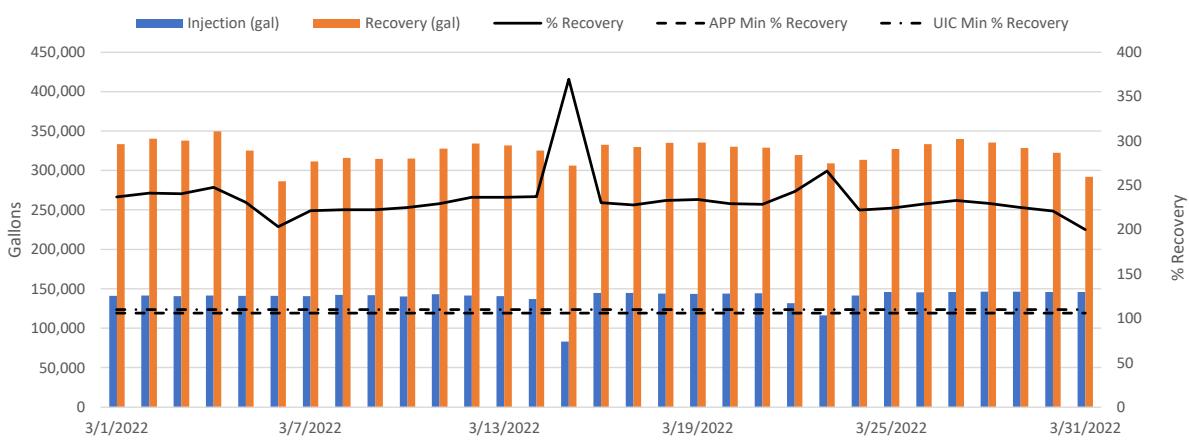


Figure 3. Injection vs. Recovery Volumes - March



ATTACHMENT 3

Table and Graphs of the Well Head Measurements in the Production Test Facility

Q1 2022 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS

PAGE 1 OF 3

OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. January 2022 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
1/1/2022	1207.04	1213.36	1221.54	1174.90	1213.36	1214.63	1139.90	1214.63	1216.16	1129.02	1216.16	1114.64	1228.13	1154.04	1228.13	1222.70	1216.99	1222.70	1221.28	1208.18	1221.28	1221.54	1305.71
1/2/2022	1206.19	1213.21	1221.66	1176.15	1213.21	1214.51	1139.92	1214.51	1216.24	1128.59	1216.24	1114.83	1228.07	1154.20	1228.07	1222.68	1216.90	1222.68	1221.19	1210.67	1221.19	1221.66	1305.71
1/3/2022	1206.14	1213.16	1221.54	1175.95	1213.16	1214.34	1139.90	1214.34	1216.19	1128.18	1216.19	1114.94	1227.96	1154.29	1227.96	1222.60	1216.82	1222.60	1221.12	1211.71	1221.12	1221.54	1307.08
1/4/2022	1206.11	1213.01	1221.45	1175.74	1213.01	1214.13	1139.87	1214.13	1216.17	1127.78	1216.17	1115.03	1228.26	1154.47	1228.26	1222.62	1216.80	1222.62	1221.08	1215.93	1221.08	1221.45	1319.84
1/5/2022	1206.12	1213.06	1221.39	1175.73	1213.06	1214.18	1139.88	1214.18	1216.14	1127.48	1216.14	1114.88	NA	1154.39	NA	1222.30	1216.58	1222.30	1221.16	1216.49	1221.16	1221.39	1325.83
1/6/2022	1207.84	1213.46	NA	1174.33	1213.46	1214.60	1139.85	1214.60	1216.46	1127.21	1216.46	1115.36	NA	1154.86	NA	1222.60	1216.86	1222.60	NA	1216.17	NA	NA	1324.10
1/7/2022	1208.87	1215.72	NA	1177.63	1215.72	1216.65	1139.93	1216.65	1217.91	1129.87	1217.91	1127.77	1228.47	1172.96	1228.47	1225.41	1221.06	1225.41	NA	1223.42	NA	NA	1327.32
1/8/2022	1209.38	1216.06	1225.78	1179.23	1216.06	1194.56	1139.91	1194.56	1220.97	1129.42	1220.97	1131.65	1229.41	1180.86	1229.41	1226.82	1223.58	1226.82	1226.12	1210.81	1226.12	1225.78	1325.63
1/9/2022	1209.29	1215.86	1223.91	1179.02	1215.86	1190.45	1139.91	1190.45	1221.33	1129.40	1221.33	1131.66	1226.74	1180.78	1226.74	1226.72	1223.73	1226.72	1225.28	1208.60	1225.28	1223.91	1324.75
1/10/2022	1210.28	1218.42	1225.10	1171.36	1218.42	1219.12	1140.29	1219.12	1219.74	1129.06	1219.74	1133.88	1226.94	1170.82	1226.94	1227.17	1223.51	1227.17	1225.48	1212.41	1225.48	1225.10	1331.96
1/11/2022	NA	1218.63	1225.44	1171.97	1218.63	1219.15	1139.96	1219.15	1219.40	1125.95	1219.40	1140.11	1227.14	1170.61	1227.14	1227.43	1223.90	1227.43	1225.68	1217.27	1225.68	1225.44	1332.15
1/12/2022	NA	1217.12	1224.19	1168.52	1217.12	1217.46	1139.95	1217.46	1218.38	1124.72	1218.38	1132.36	1225.77	1169.52	1225.77	1226.46	1222.89	1226.46	1224.62	1215.47	1224.62	1224.19	1330.60
1/13/2022	NA	1217.51	1224.63	1168.53	1217.51	1217.90	1139.93	1217.90	1218.52	1123.94	1218.52	1132.15	1225.73	1169.84	1225.73	1226.52	1223.02	1226.52	1224.78	1222.72	1224.78	1224.63	1329.91
1/14/2022	NA	1216.57	1223.76	1176.03	1216.57	1209.09	1139.92	1209.09	1218.96	1128.50	1218.96	1141.19	1226.26	1177.05	1226.26	1226.60	1221.91	1226.60	1224.92	1209.95	1224.92	1223.76	1328.42
1/15/2022	NA	1218.21	1225.36	1180.03	1218.21	1209.55	1158.93	1209.55	1220.79	1130.80	1220.79	1146.54	1227.68	1183.79	1227.68	1227.93	1223.43	1227.93	1226.34	1204.23	1226.34	1225.36	1329.11
1/16/2022	NA	1217.48	1224.69	1177.31	1217.48	1208.89	1158.94	1208.89	1220.33	1128.59	1220.33	1142.83	1227.18	1182.89	1227.18	1227.42	1222.66	1227.42	1225.72	1203.31	1225.72	1224.69	1325.05
1/17/2022	NA	1217.19	1224.51	1178.78	1217.19	1208.58	1159.15	1208.58	1218.84	1129.68	1218.84	1145.45	1226.86	1183.03	1226.86	1227.11	1222.59	1227.11	1225.46	1210.23	1225.46	1224.51	1327.26
1/18/2022	NA	1216.02	1223.70	1177.61	1216.02	1207.31	1153.63	1207.31	1217.50	1129.11	1217.50	1144.33	1225.42	1181.80	1225.42	1225.75	1221.61	1225.75	1224.27	1206.44	1224.27	1223.70	1324.36
1/19/2022	NA	1214.62	1222.21	1176.03	1214.62	1206.19	1168.50	1206.19	1216.43	1128.57	1216.43	1142.94	1223.82	1180.20	1223.82	1224.15	1219.79	1224.15	1222.65	1202.20	1222.65	1222.21	1323.45
1/20/2022	1195.51	1213.67	1221.96	1177.89	1213.67	1202.53	1162.69	1202.53	1212.78	1127.71	1212.78	1140.54	1223.56	1180.04	1223.56	1224.01	1219.78	1224.01	1222.72	1200.87	1222.72	1221.96	1323.24
1/21/2022	1196.51	1214.58	1223.23	1180.52	1214.58	1202.56	1159.33	1202.56	1215.16	1128.43	1215.16	1143.36	1224.66	1181.26	1224.66	1225.17	1221.06	1225.17	1223.96	NA	1223.96	1223.23	1324.23
1/22/2022	1197.22	1215.23	1223.53	1181.26	1215.23	1203.53	1156.15	1203.53	1216.99	1128.27	1216.99	1144.19	1225.29	1181.92	1225.29	1225.79	1221.66	1225.79	1224.58	NA	1224.58	1223.53	1327.99
1/23/2022	1200.76	1216.08	1224.15	1179.97	1216.08	1203.73	NA	1203.73	1217.69	1125.34	1217.69	1144.45	1225.66	1182.36	1225.66	1226.20	1221.79	1226.20	1225.11	NA	1225.11	1224.15	1330.15
1/24/2022	1202.22	1217.05	1225.03	1182.32	1217.05	1204.97	1156.44	1204.97	1218.00	1127.65	1218.00	1157.48	1226.82	1176.25	1226.82	1227.32	1224.75	1227.32	1226.24	NA	1226.24	1225.03	1331.22
1/																							

Q1 2022 HYDRAULIC GRADIENT, DAILY AVERAGE WATER LEVEL ELEVATIONS

PAGE 2 OF 3

OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. February 2022 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
2/1/2022	1200.81	1212.19	1220.60	1181.02	1212.19	1202.64	1159.70	1202.64	1213.45	1083.52	1213.45	1165.30	1222.19	1171.08	1222.19	1222.50	NA	1222.50	1221.50	NA	1221.50	1220.60	1330.25
2/2/2022	1200.44	1211.95	1220.09	1179.26	1211.95	1203.22	1162.66	1203.22	1214.37	1083.52	1214.37	1164.13	1222.05	1177.53	1222.05	1222.16	NA	1222.16	1220.86	1208.13	1220.86	1220.09	1333.22
2/3/2022	1200.85	1213.57	1219.78	1180.01	1213.57	1204.74	1161.21	1204.74	1213.56	1089.56	1213.56	1148.81	1222.12	1181.54	1222.12	1222.41	NA	1222.41	1221.14	1205.64	1221.14	1219.78	1335.31
2/4/2022	NA	1213.62	1220.97	1181.18	1213.62	1201.82	1159.87	1201.82	1216.65	1092.78	1216.65	1158.20	1222.47	1181.88	1222.47	1222.43	1214.64	1222.43	1221.13	1204.29	1221.13	1220.97	1334.93
2/5/2022	NA	1214.62	1221.73	1183.13	1214.62	1203.00	1159.87	1203.00	1218.75	1095.63	1218.75	1166.64	1223.69	1182.97	1223.69	1223.32	1219.28	1223.32	1221.83	1205.00	1221.83	1221.73	1344.50
2/6/2022	NA	1215.27	1222.25	1183.82	1215.27	1204.04	1159.74	1204.04	1220.00	1091.27	1220.00	1167.55	1224.58	1183.88	1224.58	1224.15	1219.55	1224.15	1222.51	1202.31	1222.51	1222.25	1335.57
2/7/2022	NA	1213.75	1221.01	1181.66	1213.75	1202.64	1159.74	1202.64	1221.53	1097.92	1221.53	1152.27	1223.77	1178.82	1223.77	1223.11	1216.09	1223.11	1221.36	1203.42	1221.36	1221.01	1337.74
2/8/2022	NA	1215.79	1222.31	1182.70	1215.79	1205.19	1161.71	1205.19	1222.60	NA	1222.60	1152.31	1224.85	1184.36	1224.85	1224.24	1218.99	1224.24	1222.53	1204.16	1222.53	1222.31	1336.00
2/9/2022	NA	1216.22	1222.76	1183.10	1216.22	1205.39	1161.71	1205.39	1222.60	NA	1222.60	1152.55	1225.15	1184.73	1225.15	1224.59	1215.99	1224.59	1222.92	1204.96	1222.92	1222.76	1338.19
2/10/2022	1202.96	1215.48	1217.99	1188.78	1215.48	1204.97	1161.71	1204.97	1219.36	NA	1219.36	1163.09	1225.36	1185.99	1225.36	1224.31	1217.48	1224.31	1219.19	1204.07	1219.19	1217.99	1337.53
2/11/2022	1204.55	1218.24	1224.69	1196.33	1218.24	1205.38	1161.71	1205.38	1227.06	NA	1227.06	1174.51	1227.90	1187.96	1227.90	1227.20	1223.14	1227.20	1225.51	1211.31	1225.51	1224.69	1338.33
2/12/2022	1203.59	1217.03	1223.78	1195.05	1217.03	1203.85	1161.71	1203.85	1226.54	NA	1226.54	1173.75	1227.04	1187.17	1227.04	1226.32	1222.18	1226.32	1224.59	1211.21	1224.59	1223.78	1338.07
2/13/2022	1203.59	1217.03	1223.78	1195.05	1217.03	1203.85	1161.71	1203.85	1226.54	NA	1226.54	1173.75	1227.04	1187.17	1227.04	1226.32	1222.18	1226.32	1224.59	1211.93	1224.59	1223.78	1336.40
2/14/2022	1203.28	1216.22	1223.26	1184.47	1216.22	1203.09	1161.71	1203.09	1228.04	NA	1228.04	1156.74	1226.51	1187.09	1226.51	1225.60	1220.54	1225.60	1223.76	1207.86	1223.76	1223.26	1336.40
2/15/2022	1200.31	1213.58	1221.22	1181.45	1213.58	1194.65	1161.71	1194.65	1229.60	NA	1229.60	1155.21	1225.16	1185.43	1225.16	1224.10	1218.92	1224.10	1222.02	1211.52	1222.02	1221.22	1336.40
2/16/2022	1200.50	1212.35	1219.73	1185.72	1212.35	1192.18	1139.85	1192.18	1231.65	1131.05	1231.65	1162.68	1223.97	1184.06	1223.97	1222.97	1218.31	1222.97	1220.90	1203.43	1220.90	1219.73	1334.18
2/17/2022	1203.37	1213.54	1220.62	1181.70	1213.54	1194.34	1133.41	1194.34	NA	1128.64	NA	1153.65	1223.80	1173.78	1223.80	1222.82	1217.98	1222.82	1221.13	1203.96	1221.13	1220.62	1333.70
2/18/2022	1204.15	1214.43	1221.17	1182.55	1214.43	1195.86	NA	1195.86	NA	1128.70	NA	1154.56	1224.11	1175.05	1224.11	1223.04	1217.65	1223.04	1221.45	1203.57	1221.45	1221.17	1334.70
2/19/2022	1202.52	1214.06	1220.76	1182.97	1214.06	1196.46	NA	1196.46	NA	1128.18	NA	1154.22	1223.68	1174.83	1223.68	1222.63	1217.43	1222.63	1221.07	1204.19	1221.07	1220.76	1336.33
2/20/2022	1203.12	1214.70	1221.18	1183.53	1214.70	1198.08	NA	1198.08	NA	1127.87	NA	1154.85	1224.24	1175.52	1224.24	1223.16	1217.94	1223.16	1221.58	1204.69	1221.58	1221.18	1335.43
2/21/2022	1201.91	1212.67	1218.89	1181.19	1212.67	1197.06	NA	1197.06	NA	1126.59	NA	1152.00	1222.55	1173.27	1222.55	1221.51	1216.16	1221.51	1219.84	1202.75	1219.84	1218.89	1334.37
2/22/2022	1202.88	1213.21	1219.71	1181.70	1213.21	1198.55	NA	1198.55	NA	1126.34	NA	1152.75	1222.78	1173.92	1222.78	1221.71	1216.42	1221.71	1220.11	1203.16	1220.11	1219.71	1332.16
2/23/2022	1202.33	1212.96	1218.69	1181.48	1212.96	1199.54	NA	1199.54	1208.04	1125.68	1208.04	1152.65	1223.01	1173.96	1223.01	1221.82	1216.49	1221.82	1219.54	1201.83	1219.54	1218.69	1333.96
2/24/2022	1206.51	1217.54	1223.51	1186.48	1217.54	1203.96	NA	1203.96	1214.40	1126.80	1214.40	1158.12	1227.06	1178.80	1227.06	1225.78	1220.57	1225.78	1224.13	1206.01	1224.13	1223.51	1338.47
2/25/2022	1207.02	1217.69	1222.68	1186.43	1217.6																		

OBSERVATION AND RECOVERY WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. March 2022 Daily Average Water Level Elevations

Date	R-01	O-01	O-07	R-02	O-01	O-02	R-03	O-02	O-03	R-04	O-03	R-05	O-04	R-06	O-04	O-05	R-07	O-05	O-06	R-08	O-06	O-07	R-09
3/1/2022	1207.45	1217.88	1222.15	1186.60	1217.88	1202.58	NA	1202.58	1194.33	1124.98	1194.33	1156.04	1226.72	1179.31	1226.72	1225.79	1220.87	1225.79	1224.51	1207.65	1224.51	1222.15	1342.52
3/2/2022	1206.66	1216.95	1221.27	1185.29	1216.95	1200.68	1141.38	1200.68	1193.97	1124.56	1193.97	1155.14	1226.14	1178.89	1226.14	1225.23	1220.31	1225.23	1223.92	1207.02	1223.92	1221.27	1342.70
3/3/2022	1206.81	1217.30	1220.70	1183.91	1217.30	1200.48	1137.81	1200.48	1192.94	1124.00	1192.94	1153.99	1225.66	1178.48	1225.66	1224.84	1220.30	1224.84	1223.47	1206.40	1223.47	1220.70	1340.42
3/4/2022	1206.68	NA	1220.28	1184.23	NA	1200.15	1137.01	1200.15	1189.47	1123.74	1189.47	1153.73	1225.59	1178.60	1225.59	1224.83	1220.14	1224.83	1223.48	1206.68	1223.48	1220.28	1345.11
3/5/2022	1208.55	NA	1222.71	1186.65	NA	1202.96	1139.46	1202.96	1194.33	1127.27	1194.33	1163.77	1227.37	1184.57	1227.37	1226.55	1222.11	1226.55	1225.28	1210.24	1225.28	1222.71	1349.24
3/6/2022	1213.84	NA	1228.07	1193.17	NA	1209.76	1147.07	1209.76	1203.94	1133.25	1203.94	1180.33	1232.42	1196.03	1232.42	1231.67	1228.01	1231.67	1230.68	1218.37	1230.68	1228.07	1358.31
3/7/2022	1211.03	NA	1226.32	1182.03	NA	1207.68	1127.96	1207.68	1201.17	1125.90	1201.17	1161.51	1230.54	1185.77	1230.54	1229.94	1225.41	1229.94	1228.82	1213.38	1228.82	1226.32	1355.90
3/8/2022	1207.76	NA	1224.23	1177.73	NA	1206.13	1121.26	1206.13	1199.22	1124.65	1199.22	1158.45	1228.86	1182.93	1228.86	1228.15	1223.38	1228.15	1226.80	1210.82	1226.80	1224.23	1354.57
3/9/2022	1207.80	1219.11	1224.24	1177.75	1219.11	1206.79	1120.62	1206.79	1199.28	1124.40	1199.28	1158.34	1228.72	1182.79	1228.72	1228.01	1223.23	1228.01	1226.69	1210.67	1226.69	1224.24	1354.62
3/10/2022	1206.82	1220.97	1226.13	1176.10	1220.97	1205.87	1118.66	1205.87	1196.93	1123.91	1196.93	1157.20	1227.86	1181.94	1227.86	1227.18	1222.31	1227.18	1225.73	1209.60	1225.73	1226.13	1351.31
3/11/2022	1205.70	1219.24	1223.37	1168.00	1219.24	1203.78	1117.18	1203.78	1195.56	1123.60	1195.56	1145.12	1226.39	1181.11	1226.39	1225.87	1220.49	1225.87	1224.71	1205.50	1224.71	1223.37	1271.24
3/12/2022	1202.56	1217.80	1222.27	1162.80	1217.80	1203.04	1115.33	1203.04	1194.93	1123.24	1194.93	1139.25	1226.53	1180.81	1226.53	1225.59	1219.45	1225.59	1223.85	1202.82	1223.85	1222.27	1231.80
3/13/2022	1202.80	1218.00	1222.32	1162.99	1218.00	1204.00	1115.07	1204.00	1195.09	1123.12	1195.09	1139.31	1226.52	1180.83	1226.52	1225.59	1219.46	1225.59	1223.87	1202.92	1223.87	1222.32	1231.78
3/14/2022	1203.00	1218.20	1222.49	1162.87	1218.20	1204.74	1109.95	1204.74	1194.95	1120.49	1194.95	1138.66	1226.28	1181.27	1226.28	1225.45	1219.36	1225.45	1223.82	1202.23	1223.82	1222.49	1231.47
3/15/2022	1196.67	1211.11	1215.77	1155.58	1211.11	1200.21	1097.13	1200.21	1192.66	1115.79	1192.66	1150.32	1221.83	1171.88	1221.83	1219.60	1212.88	1219.60	1217.24	1192.74	1217.24	1215.77	1223.80
3/16/2022	1201.47	1207.00	1221.14	1160.05	1207.00	1200.13	1091.00	1200.13	1192.14	1111.39	1192.14	NA	1225.92	1173.35	1225.92	1224.19	1217.87	1224.19	1222.03	1196.27	1222.03	1221.14	1230.54
3/17/2022	1202.70	1216.45	1221.13	1161.20	1216.45	1202.20	1091.78	1202.20	1192.89	1112.94	1192.89	NA	1226.38	1174.10	1226.38	1224.87	1218.93	1224.87	1222.85	1197.03	1222.85	1221.13	1231.35
3/18/2022	1200.86	1214.94	1219.64	1159.82	1214.94	1201.80	1089.65	1201.80	1190.23	1110.51	1190.23	NA	1224.81	1172.29	1224.81	1223.25	1216.99	1223.25	1221.25	1195.38	1221.25	1219.64	1229.67
3/19/2022	1201.01	1209.58	1219.39	1156.49	1209.58	1202.19	1088.62	1202.19	1188.18	1112.50	1188.18	NA	1223.95	1170.45	1223.95	1222.38	1216.13	1222.38	1220.44	1194.16	1220.44	1219.39	1228.77
3/20/2022	1205.01	1210.88	1219.87	1149.44	1210.88	1203.39	1083.89	1203.39	1187.82	1110.31	1187.82	NA	1224.07	1172.28	1224.07	1222.60	1216.38	1222.60	1220.70	1193.42	1220.70	1219.87	1228.83
3/21/2022	1200.08	1210.26	1218.92	1154.46	1210.26	1204.54	1090.13	1204.54	1189.47	1124.53	1189.47	NA	1223.90	1166.88	1223.90	1222.30	1216.09	1222.30	1220.43	1194.31	1220.43	1218.92	1229.13
3/22/2022	1197.14	1204.73	1217.02	1148.26	1204.73	1204.76	1093.23	1204.76	1192.17	1129.26	1192.17	NA	1222.38	1156.12	1222.38	1220.34	1214.23	1220.34	1218.62	1187.70	1218.62	1217.02	1227.66
3/23/2022	1199.80	1209.88	1216.97	1147.54	1209.88	1205.65	1094.27	1205.65	1194.07	NA	1194.07	NA	1222.24	1154.51	1222.24	1219.71	1212.69	1219.71	1217.88	1186.50	1217.88	1216.97	1226.93
3/24/2022	1200.95	1214.66	1220.43	1153.97	1214.66	1209.21	1105.10	1209.21	1194.94	NA	1194.94	NA	1225.67	1162.59	1225.67	1223.52	1217.56	1223.52	1221.87	1190.76	1221.87	1220	

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1a. Q2 Water Levels

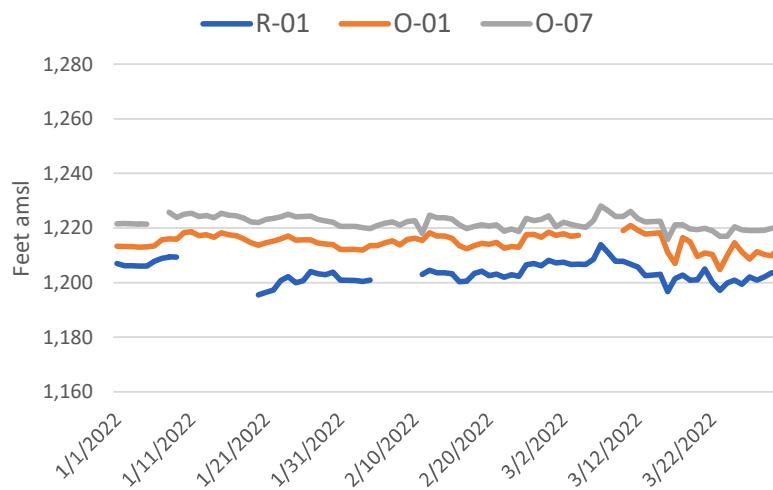


Figure 1b. Q2 Water Levels

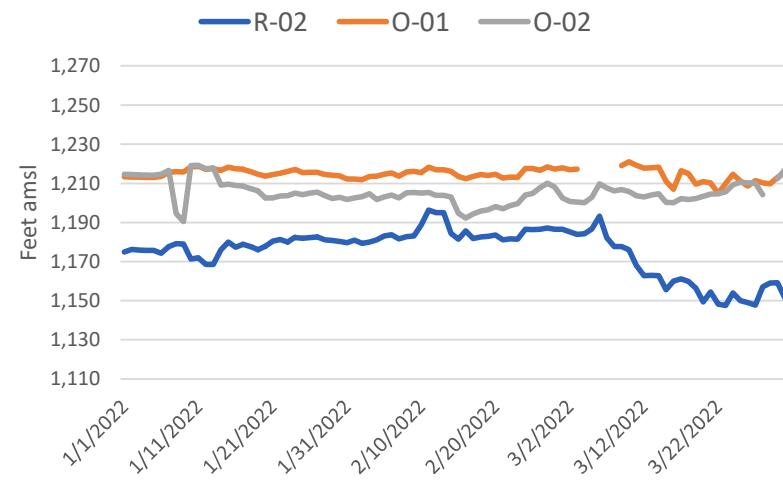


Figure 1c. Q2 Water Levels

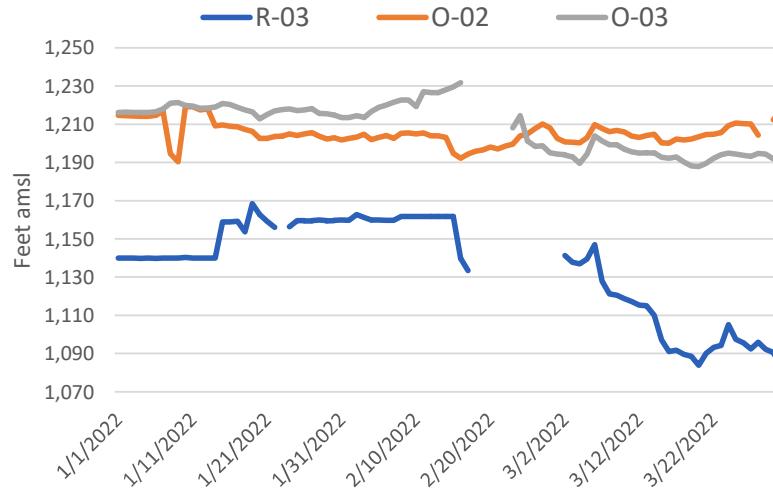
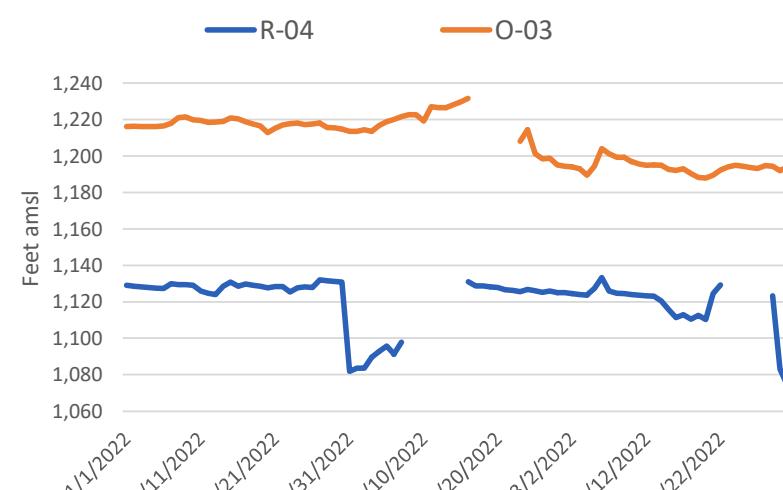


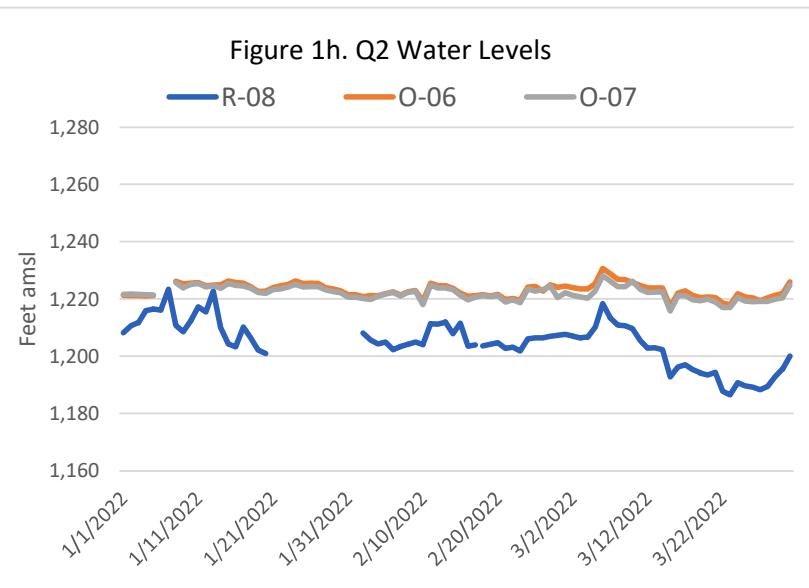
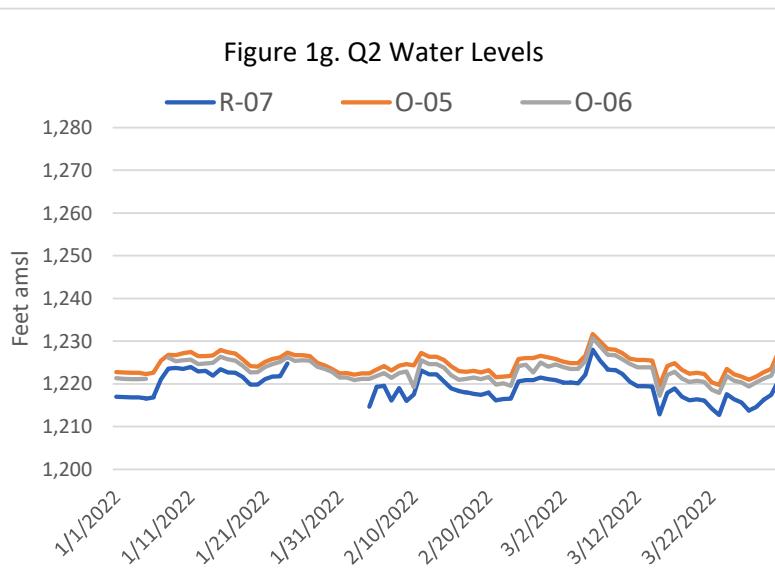
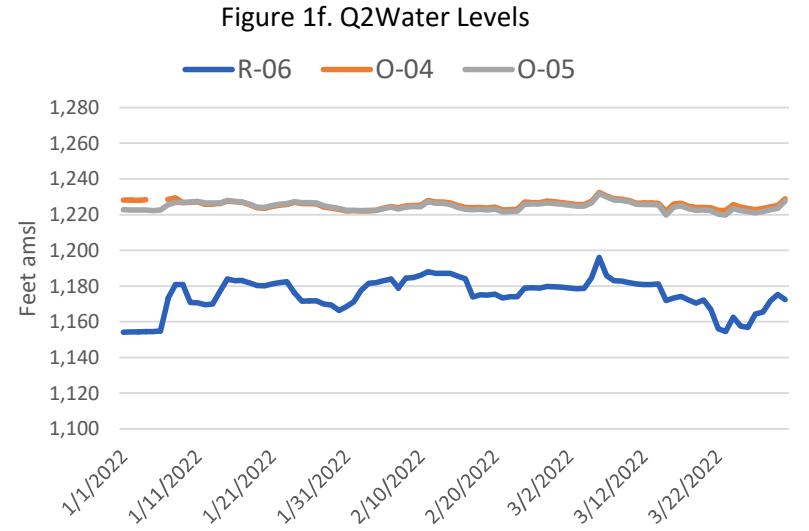
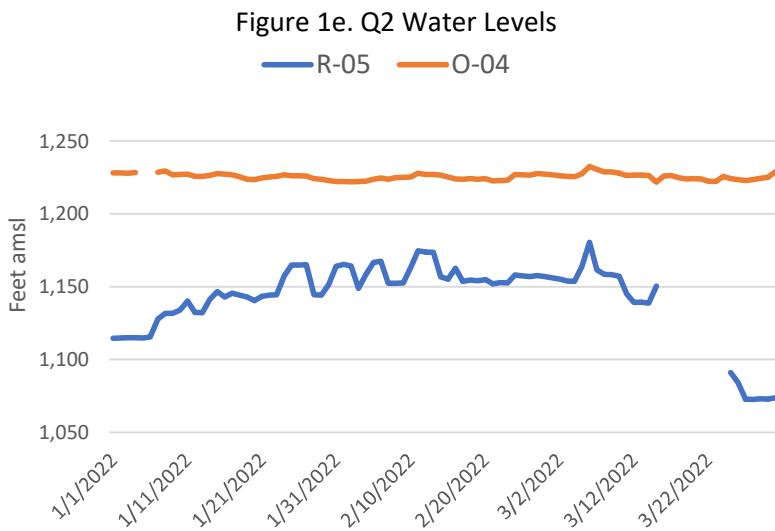
Figure 1d. Q2 Water Levels



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells



Notes:

Refer to preceding Daily Average Water Level Elevations Tables (Tables 1 - 3) for details on missing data points.

Q1 2022 DAILY HYDRAULIC GRADIENT FOR RECOVERY WELL PAIRINGS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. January 2022 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
1/1/2022	6.32	14.50	38.46	39.73	74.73	76.26	87.14	113.49	74.09	68.66	5.71	4.29	13.10	13.36	Yes
1/2/2022	7.02	15.47	37.06	38.36	74.59	76.32	87.65	113.24	73.87	68.48	5.78	4.29	10.52	10.99	Yes
1/3/2022	7.02	15.40	37.21	38.38	74.44	76.29	88.01	113.02	73.67	68.31	5.78	4.30	9.41	9.83	Yes
1/4/2022	6.90	15.34	37.27	38.39	74.26	76.30	88.39	113.23	73.79	68.14	5.82	4.28	5.15	5.52	Yes
1/5/2022	6.94	15.27	37.33	38.45	74.30	76.27	88.66	NA	NA	67.90	5.71	4.58	4.67	4.90	Yes
1/6/2022	5.62	NA	39.12	40.27	74.75	76.61	89.25	NA	NA	67.74	5.74	NA	NA	NA	Yes
1/7/2022	6.85	NA	38.09	39.02	76.72	77.98	88.04	100.70	55.51	52.45	4.35	NA	NA	NA	Yes
1/8/2022	6.68	16.40	36.83	15.33	54.65	81.06	91.55	97.76	48.55	45.96	3.24	2.54	15.31	14.97	Yes
1/9/2022	6.57	14.62	36.84	11.43	50.54	81.42	91.93	95.08	45.96	45.94	2.99	1.55	16.68	15.31	Yes
1/10/2022	8.14	14.82	47.06	47.76	78.83	79.45	90.68	93.06	56.12	56.35	3.66	1.97	13.07	12.69	Yes
1/11/2022	NA	NA	46.66	47.18	79.19	79.44	93.45	87.03	56.53	56.82	3.53	1.78	8.41	8.17	Yes
1/12/2022	NA	NA	48.60	48.94	77.51	78.43	93.66	93.41	56.25	56.94	3.57	1.73	9.15	8.72	Yes
1/13/2022	NA	NA	48.98	49.37	77.97	78.59	94.58	93.58	55.89	56.68	3.50	1.76	2.06	1.91	Yes
1/14/2022	NA	NA	40.54	33.06	69.17	79.04	90.46	85.07	49.21	49.55	4.69	3.01	14.97	13.81	Yes
1/15/2022	NA	NA	38.18	29.52	50.62	61.86	89.99	81.14	43.89	44.14	4.50	2.91	22.11	21.13	Yes
1/16/2022	NA	NA	40.17	31.58	49.95	61.39	91.74	84.35	44.29	44.53	4.76	3.06	22.41	21.38	Yes
1/17/2022	NA	NA	38.41	29.80	49.43	59.69	89.16	81.41	43.83	44.08	4.52	2.87	15.23	14.28	Yes
1/18/2022	NA	NA	38.41	29.70	53.68	63.87	88.39	81.09	43.62	43.95	4.14	2.66	17.83	17.26	Yes
1/19/2022	NA	NA	38.59	30.16	37.69	47.93	87.86	80.88	43.62	43.95	4.36	2.86	20.45	20.01	Yes
1/20/2022	18.16	26.45	35.78	24.64	39.84	50.09	85.07	83.02	43.52	43.97	4.23	2.94	21.85	21.09	Yes
1/21/2022	18.07	26.72	34.06	22.04	43.23	55.83	86.73	81.30	43.40	43.91	4.11	2.90	NA	NA	Yes
1/22/2022	18.01	26.31	33.97	22.27	47.38	60.84	88.72	81.10	43.37	43.87	4.13	2.92	NA	NA	Yes
1/23/2022	15.32	23.39	36.11	23.76	NA	NA	92.35	81.21	43.30	43.84	4.41	3.32	NA	NA	Yes
1/24/2022	14.83	22.81	34.73	22.65	48.53	61.56	90.35	69.34	50.57	51.07	2.57	1.49	NA	NA	Yes
1/25/2022	15.62	24.19	33.67	22.27	44.57	57.64	89.12	61.39	54.69	55.20	NA	NA	NA	NA	Yes
1/26/2022	15.03	23.63	33.45	22.74	45.49	58.04	89.70	61.22	54.41	55.03	NA	NA	NA	NA	Yes
1/27/2022	11.56	20.19	33.09	22.97	46.10	58.63	86.14	60.89	54.26	54.83	NA	NA	NA	NA	Yes
1/28/2022	11.29	19.95	33.32	22.49	43.82	55.80	84.24	79.71	54.37	55.11	NA	NA	NA	NA	Yes
1/29/2022	11.34	19.74	33.45	21.47	42.74	56.05	84.31	79.50	54.33	54.96	NA	NA	NA	NA	Yes
1/30/2022	10.05	18.24	33.58	22.50	43.20	55.13	83.89	71.38	56.74	57.29	NA	NA	NA	NA	Yes
1/31/2022	11.32	19.76	32.60	22.16	41.86	53.55	131.58	58.14	53.66	53.95	NA	NA	NA	NA	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

1/5 - 1/6/2022 O-04 redevelopment

1/6 - 1/7/2022 Pump & transducers pulled from O-06 and O-07 for a logging test

1/11 - 1/19/2022 R-01 redevelopment

1/21 - 2/3/2022 R-08 redevelopment

1/23/2022 R-03 transducer malfunction

1/25 - 2/3/22 R-07 redevelopment

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 5. February 2022 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
2/1/2022	11.38	19.79	31.18	21.62	42.94	53.75	129.93	56.89	51.11	51.42	NA	NA	NA	NA	Yes
2/2/2022	11.51	19.66	32.68	23.96	40.56	51.71	130.85	57.92	44.51	44.62	NA	NA	12.73	11.96	Yes
2/3/2022	12.72	18.93	33.57	24.73	43.53	52.35	124.00	73.30	40.58	40.87	NA	NA	15.50	14.14	Yes
2/4/2022	NA	NA	32.44	20.65	41.95	56.78	123.87	64.27	40.59	40.55	7.79	6.49	16.84	16.68	Yes
2/5/2022	NA	NA	31.49	19.87	43.13	58.88	123.12	57.05	40.72	40.35	4.04	2.55	16.83	16.73	Yes
2/6/2022	NA	NA	31.46	20.22	44.30	60.26	128.73	57.03	40.70	40.28	4.60	2.96	20.20	19.94	Yes
2/7/2022	NA	NA	32.09	20.98	42.90	61.79	123.61	71.50	44.95	44.29	7.02	5.27	17.94	17.59	Yes
2/8/2022	NA	NA	33.09	22.49	43.48	60.89	NA	72.54	40.49	39.89	5.25	3.54	18.37	18.15	Yes
2/9/2022	NA	NA	33.12	22.30	43.68	60.89	NA	72.60	40.42	39.86	8.60	6.93	17.96	17.80	Yes
2/10/2022	12.52	15.03	26.70	16.18	43.26	57.65	NA	62.28	39.37	38.32	6.83	1.71	15.12	13.92	Yes
2/11/2022	13.69	20.14	21.91	9.05	43.67	65.35	NA	53.39	39.94	39.24	4.06	2.37	14.20	13.38	Yes
2/12/2022	13.44	20.19	21.99	8.81	42.14	64.83	NA	53.29	39.87	39.15	4.14	2.41	13.38	12.57	Yes
2/13/2022	13.44	20.19	21.99	8.81	42.14	64.83	NA	53.29	39.87	39.15	4.14	2.41	12.66	11.85	Yes
2/14/2022	12.94	19.98	31.75	18.61	41.38	66.33	NA	69.77	39.42	38.51	5.06	3.22	15.90	15.40	Yes
2/15/2022	13.27	20.91	32.13	13.20	32.94	67.89	NA	69.95	39.74	38.67	5.18	3.10	10.50	9.70	Yes
2/16/2022	11.85	19.22	26.63	6.46	52.33	91.80	100.61	61.29	39.91	38.91	4.66	2.59	17.47	16.30	Yes
2/17/2022	10.17	17.26	31.84	12.64	60.93	NA	NA	70.15	50.01	49.03	4.83	3.15	17.17	16.66	Yes
2/18/2022	10.28	17.02	31.88	13.31	NA	NA	NA	69.55	49.06	47.99	5.39	3.80	17.88	17.60	Yes
2/19/2022	11.54	18.24	31.09	13.49	NA	NA	NA	69.46	48.85	47.80	5.20	3.64	16.88	16.57	Yes
2/20/2022	11.58	18.06	31.17	14.55	NA	NA	NA	69.39	48.72	47.64	5.22	3.64	16.89	16.49	Yes
2/21/2022	10.76	16.98	31.48	15.87	NA	NA	NA	70.55	49.28	48.24	5.35	3.68	17.09	16.14	Yes
2/22/2022	10.33	16.83	31.51	16.86	NA	NA	NA	70.03	48.86	47.79	5.29	3.69	16.95	16.55	Yes
2/23/2022	10.63	16.36	31.48	18.06	NA	NA	82.36	70.36	49.05	47.86	5.33	3.05	17.71	16.86	Yes
2/24/2022	11.03	17.00	31.06	17.48	NA	NA	87.59	68.94	48.26	46.98	5.20	3.56	18.12	17.50	Yes
2/25/2022	10.67	15.66	31.26	18.40	NA	NA	75.06	69.31	47.68	46.99	5.19	3.59	18.09	16.34	Yes
2/26/2022	10.43	17.04	30.10	21.28	NA	NA	73.14	69.64	47.83	47.16	5.15	1.83	16.34	16.88	Yes
2/27/2022	10.28	16.32	31.32	23.00	NA	NA	72.79	70.04	47.91	46.82	5.13	3.53	18.05	17.59	Yes
2/28/2022	10.05	13.29	30.69	21.49	NA	NA	69.94	70.29	47.83	46.69	5.13	2.97	16.79	13.25	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

2/4 - 2/9/2022 R-01 redevelopment

2/8 - 2/15/2022 R-04 redevelopment

1/25 - 2/3/2022 R-07 redevelopment

1/21 - 2/1/2022 R-08 redevelopment

2/17 - 2/22/2022 O-03 prep for redevelopment

2/18 - 3/1/2022 R-03 redevelopment

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 6. March 2022 Daily Average Gradients

Date	R-01		R-02		R-03		R-04	R-05	R-06		R-07		R-08		All Gradients <1 foot?
	O-01	O-07	O-01	O-02	O-02	O-03	O-03	O-04	O-04	O-05	O-05	O-06	O-06	O-07	
3/1/2022	10.43	14.70	31.28	15.99	NA	NA	69.36	70.68	47.41	46.48	4.92	3.64	16.86	14.50	Yes
3/2/2022	10.29	14.61	31.66	15.39	59.30	52.59	69.41	70.99	47.25	46.35	4.92	3.61	16.89	14.24	Yes
3/3/2022	10.49	13.88	33.40	16.57	62.67	55.13	68.94	71.67	47.18	46.35	4.53	3.17	17.08	14.30	Yes
3/4/2022	NA	13.60	NA	15.92	63.14	52.46	65.73	71.86	46.99	46.23	4.69	3.34	16.80	13.60	Yes
3/5/2022	NA	14.16	NA	16.31	63.50	54.87	67.06	63.60	42.80	41.98	4.44	3.17	15.04	12.47	Yes
3/6/2022	NA	14.24	NA	16.59	62.69	56.87	70.69	52.09	36.39	35.64	3.66	2.67	12.31	9.71	Yes
3/7/2022	NA	15.29	NA	25.65	79.73	73.21	75.27	69.04	44.78	44.18	4.53	3.41	15.44	12.93	Yes
3/8/2022	NA	16.46	NA	28.40	84.87	77.96	74.57	70.42	45.93	45.22	4.77	3.42	15.98	13.41	Yes
3/9/2022	11.31	16.44	41.36	29.04	86.17	78.66	74.87	70.38	45.93	45.22	4.78	3.47	16.02	13.57	Yes
3/10/2022	14.15	19.31	44.87	29.77	87.21	78.27	73.02	70.65	45.92	45.24	4.87	3.42	16.13	16.53	Yes
3/11/2022	13.55	17.67	51.25	35.78	86.60	78.39	71.97	81.27	45.28	44.76	5.38	4.22	19.20	17.87	Yes
3/12/2022	15.24	19.71	55.01	40.24	87.71	79.61	71.70	87.28	45.72	44.78	6.14	4.40	21.03	19.45	Yes
3/13/2022	15.19	19.52	55.00	41.00	88.93	80.02	71.96	87.21	45.69	44.76	6.13	4.41	20.95	19.40	Yes
3/14/2022	15.20	19.49	55.33	41.87	94.79	85.00	74.46	87.61	45.01	44.19	6.09	4.46	21.60	20.27	Yes
3/15/2022	14.44	19.10	55.53	44.64	103.08	95.53	76.87	71.51	49.95	47.71	6.72	4.36	24.50	23.03	Yes
3/16/2022	5.54	19.67	46.96	40.08	109.13	101.14	80.75	NA	52.57	50.84	6.32	4.17	25.76	24.86	Yes
3/17/2022	13.75	18.43	55.25	41.00	110.43	101.11	79.95	NA	52.28	50.76	5.93	3.91	25.82	24.10	Yes
3/18/2022	14.08	18.78	55.12	41.98	112.15	100.58	79.72	NA	52.52	50.96	6.26	4.26	25.87	24.26	Yes
3/19/2022	8.57	18.38	53.09	45.70	113.57	99.56	75.68	NA	53.50	51.93	6.25	4.31	26.28	25.23	Yes
3/20/2022	5.88	14.86	61.44	53.94	119.50	103.94	77.52	NA	51.79	50.32	6.23	4.33	27.28	26.45	Yes
3/21/2022	10.18	18.84	55.81	50.08	114.41	99.34	64.95	NA	57.02	55.42	6.21	4.34	26.12	24.61	Yes
3/22/2022	7.59	19.88	56.46	56.50	111.53	98.94	62.91	NA	66.26	64.21	6.11	4.39	30.92	29.32	Yes
3/23/2022	10.08	17.17	62.35	58.12	111.39	99.80	NA	NA	67.72	65.19	7.01	5.18	31.38	30.48	Yes
3/24/2022	13.71	19.48	60.69	55.24	104.12	89.84	NA	NA	63.08	60.93	5.96	4.31	31.11	29.67	Yes
3/25/2022	11.87	19.94	61.24	60.64	113.16	96.97	NA	133.16	66.71	64.74	5.90	4.40	31.12	29.65	Yes
3/26/2022	6.57	17.02	59.55	61.18	114.58	98.01	NA	139.28	66.75	64.96	6.08	4.73	31.14	29.86	Yes
3/27/2022	10.42	18.20	26.71	62.40	117.73	100.74	NA	150.00	58.38	56.54	7.14	5.62	31.08	30.82	Yes
3/28/2022	8.24	17.10	53.26	47.18	108.25	98.77	NA	150.74	58.10	56.32	7.08	5.74	30.90	29.75	Yes
3/29/2022	6.16	16.26	50.71	NA	NA	102.10	71.21	151.45	52.80	51.10	6.42	4.96	28.41	27.05	Yes
3/30/2022	9.40	16.77	53.71	53.07	121.85	101.40	108.75	152.20	49.87	48.29	6.08	4.50	26.39	24.84	Yes
3/31/2022	9.42	18.81	63.88	65.48	133.21	110.25	119.93	155.08	56.38	55.20	6.75	5.02	25.81	24.70	Yes

Notes:

All measurements in elevation above mean sea level.

NA or NM = Not measured or otherwise not available

No data were available for the following dates/wells:

2/18 - 3/1/2022 R-03 redevelopment

3/4 - 3/8/2022 O-01 redevelopment

3/16 - 3/24/2022 R-05 redevelopment

3/23 - 3/28/2022 R-04 redevelopment

3/29/2022 O-02 redevelopment

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1 i. Hydraulic Gradient for Wells Paired with R-01

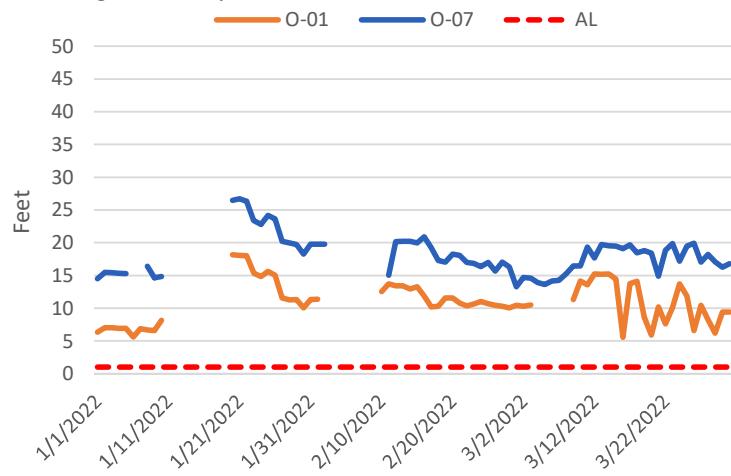


Figure 1j. Hydraulic Gradient for Wells Paired with R-02

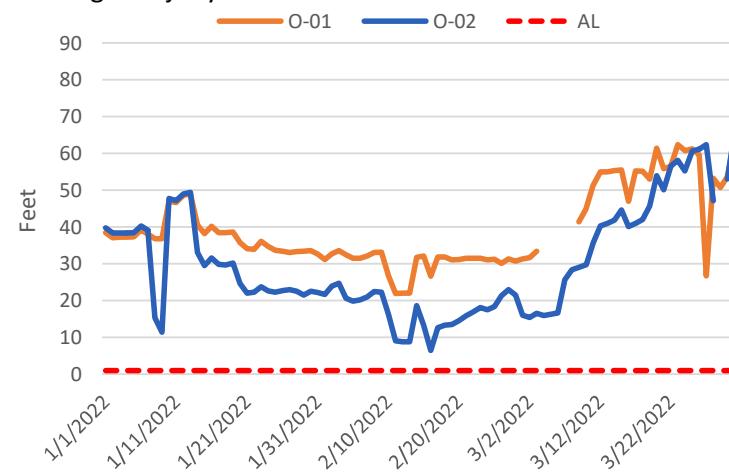


Figure 1k. Hydraulic Gradient for Wells Paired with R-03

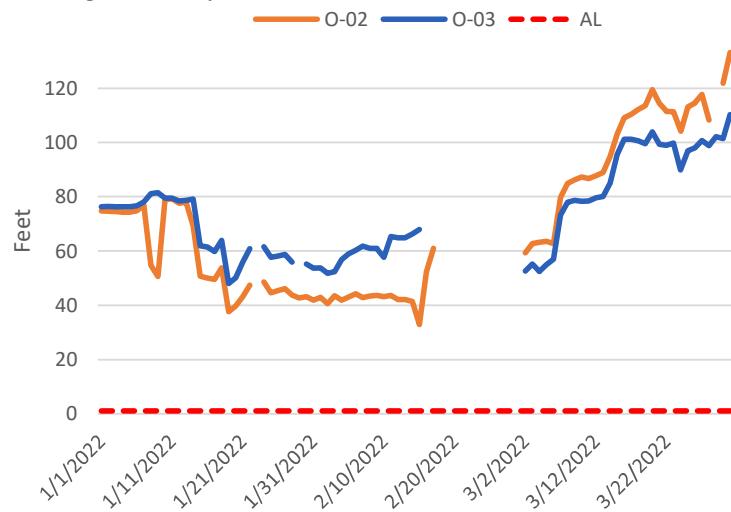
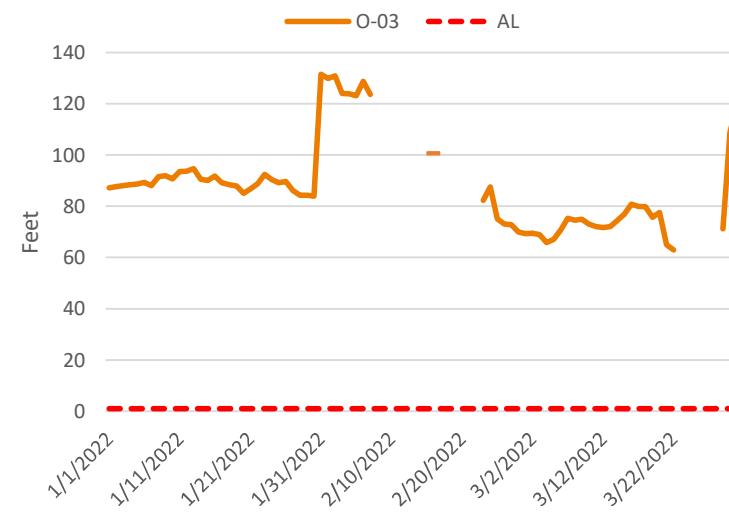


Figure 1l. Hydraulic Gradient for Wells Paired with R-04



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

Hydraulic Gradient - Daily Average Water Level Elevations - Observation and Recovery Wells

Figure 1m. Hydraulic Gradient for Wells Paired with R-05

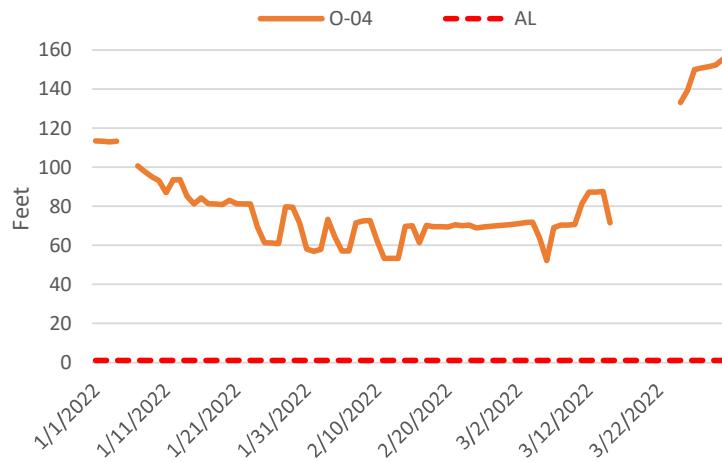


Figure 1n. Hydraulic Gradient for Wells Paired with R-06

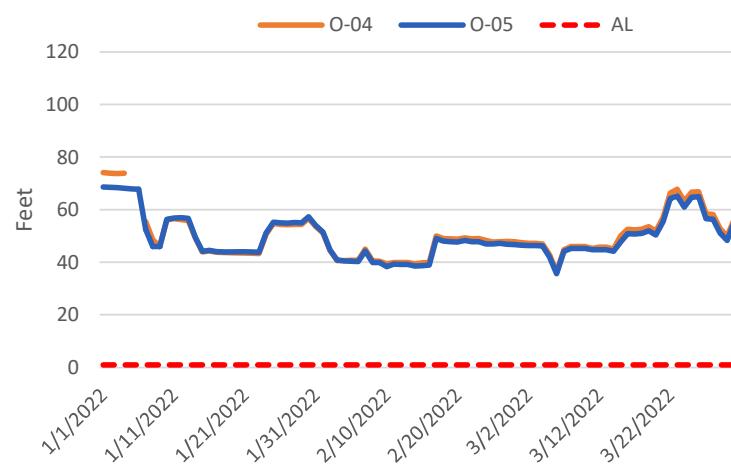


Figure 1o. Hydraulic Gradient for Wells Paired with R-07

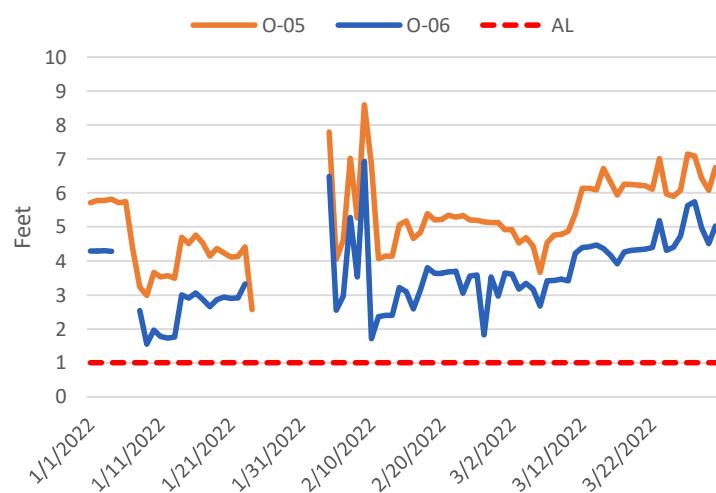
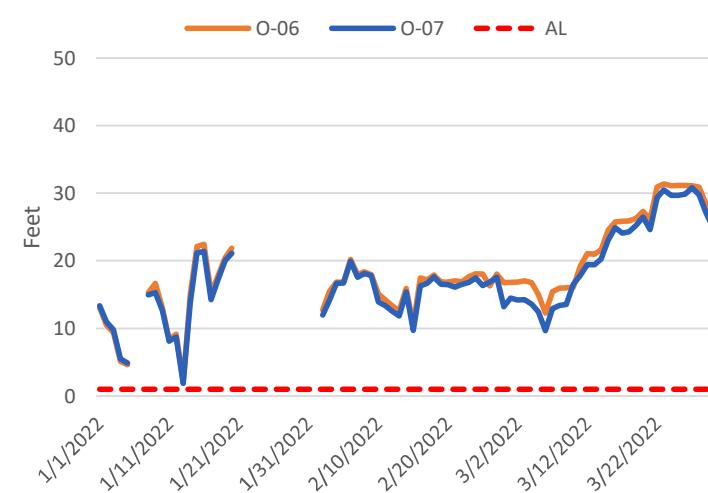


Figure 1p. Hydraulic Gradient for Wells Paired with R-08



Notes:

Refer to preceding Daily Hydraulic Gradient for Recovery Well Pairings Tables (Tables 4 - 6) for details on missing data points.

ATTACHMENT 4

Table and Graphs of Fluid Electrical Conductivity Measurements

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 1. January 2022 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
1/1/2022	NA	NA	NA	NA	525	4567	1348	4495	1560	1733	1679	1577
1/2/2022	NA	NA	NA	NA	601	4298	1362	4635	1725	1144	1616	1546
1/3/2022	NA	NA	NA	NA	463	4674	1414	4567	1476	1595	1495	1485
1/4/2022	NA	NA	NA	NA	1012	4196	1365	4835	1511	1668	1546	1563
1/5/2022	NA	NA	NA	NA	780	4151	1553	4516	NA	1651	1535	1496
1/6/2022	NA	NA	NA	NA	891	4082	1352	4832	NA	1610	NA	NA
1/7/2022	NA	NA	NA	NA	877	4230	1450	4670	1228	1638	NA	NA
1/8/2022	NA	NA	NA	NA	595	4304	1841	4853	NA	1671	1589	1154
1/9/2022	NA	NA	NA	NA	2329	4315	1813	4534	1227	1608	1533	1496
1/10/2022	NA	NA	NA	NA	473	4357	1782	4688	NA	1627	1487	1498
1/11/2022	NA	NA	NA	NA	394	4612	1854	4945	1227	1809	1674	1818
1/12/2022	NA	NA	NA	NA	443	4446	1706	4645	1226	1673	1589	1574
1/13/2022	NA	NA	NA	NA	978	4464	1776	4447	1226	1794	1570	1574
1/14/2022	NA	NA	NA	NA	419	4625	1891	5022	NA	1727	1589	1625
1/15/2022	NA	NA	NA	NA	371	4599	2916	4973	NA	1708	1613	1559
1/16/2022	NA	NA	NA	NA	539	4868	2874	4962	NA	1713	1662	1566
1/17/2022	NA	NA	NA	NA	599	5233	3152	4920	1056	1804	1631	1635
1/18/2022	NA	NA	NA	NA	488	4701	2994	5200	1873	1487	1613	1606
1/19/2022	NA	NA	NA	NA	816	4635	3174	4972	1917	1739	1630	1609
1/20/2022	NA	NA	NA	NA	640	4217	2775	4758	1673	1566	1493	1492
1/21/2022	NA	NA	NA	NA	466	4554	2931	4995	1830	1688	1542	1533
1/22/2022	NA	NA	NA	NA	710	4124	2953	4750	1665	1562	1508	1479
1/23/2022	NA	NA	NA	NA	892	4090	2872	4662	1695	1639	1495	1483
1/24/2022	NA	NA	NA	NA	488	3971	2854	4476	1597	1510	1487	1492
1/25/2022	NA	NA	NA	NA	466	3854	2832	4669	1618	1534	1470	1468
1/26/2022	NA	NA	NA	NA	427	3996	2748	4644	1609	1540	1476	1462
1/27/2022	NA	NA	NA	NA	703	3818	2890	4732	1627	1538	1485	1472
1/28/2022	NA	NA	NA	NA	1237	4455	3025	4951	1781	1667	1613	1600
1/29/2022	NA	NA	NA	NA	1479	4253	2822	4892	1778	1683	1589	1594
1/30/2022	NA	NA	NA	NA	1183	3980	2909	4725	1797	1620	1541	1561
1/31/2022	NA	NA	NA	NA	1562	4307	3047	5101	1803	1634	1648	1586

Notes:All measurements in microsiemens per centimeter ($\mu\text{S}/\text{cm}$)

#N/A or NM = Not measured or otherwise not available

1/1 - 3/11/2022 Injection wells were used as recovery w

1/1 - 3/11/2022 R-09 was operated as the sole injection well

1/9/2022 R-09 outlier

No data were available for the following dates/wells:

1/5 - 1/6/2022 O-04 redevelopment

1/8, 1/10, and 1/14 - 1/16/2022 O-04 pump issues

1/6 - 1/7/2022 O-06 & O-07 pump and transducer pulled for logging test

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 2. February 2022 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
2/1/2022	NA	NA	NA	NA	1355	4393	2982	4976	1819	1662	1634	1600
2/2/2022	NA	NA	NA	NA	1617	4419	2912	4855	1979	1786	1613	1589
2/3/2022	NA	NA	NA	NA	1650	3964	2683	4522	1591	1504	1505	1466
2/4/2022	NA	NA	NA	NA	1032	4658	2410	4160	2062	1850	1896	1796
2/5/2022	NA	NA	NA	NA	1378	4012	2622	4135	1710	1582	1499	1522
2/6/2022	NA	NA	NA	NA	1144	4625	2842	4535	NA	1702	1608	1550
2/7/2022	NA	NA	NA	NA	1183	4249	2947	4454	1738	1632	1593	1591
2/8/2022	NA	NA	NA	NA	1592	4556	3081	4902	1772	1646	1612	1608
2/9/2022	NA	NA	NA	NA	1519	4295	3098	4823	1779	1660	1604	1612
2/10/2022	NA	NA	NA	NA	1524	4258	3082	4853	1770	1640	1590	1587
2/11/2022	NA	NA	NA	NA	1060	4388	3120	4876	1681	1506	1652	1622
2/12/2022	NA	NA	NA	NA	1847	4477	3240	5161	1693	1586	1649	1667
2/13/2022	NA	NA	NA	NA	1730	4392	3148	4633	1672	1693	1634	1605
2/14/2022	NA	NA	NA	NA	1177	4381	2885	4099	1717	1704	1594	1611
2/15/2022	NA	NA	NA	NA	2114	4364	2846	3759	1752	1544	1403	1517
2/16/2022	NA	NA	NA	NA	721	3874	2926	3712	1619	1500	1446	1479
2/17/2022	NA	NA	NA	NA	978	4586	2918	NA	1732	1623	1658	1485
2/18/2022	NA	NA	NA	NA	1197	3669	3011	NA	1754	1559	1516	1493
2/19/2022	NA	NA	NA	NA	1293	3909	2997	NA	1751	1558	1495	1478
2/20/2022	NA	NA	NA	NA	1681	3812	3045	NA	1744	1575	1517	1510
2/21/2022	NA	NA	NA	NA	1770	3738	2939	NA	1742	1548	1525	1505
2/22/2022	NA	NA	NA	NA	1258	3701	2969	NA	1899	1631	1506	1478
2/23/2022	NA	NA	NA	NA	1376	3737	2910	NA	1765	1625	1516	1490
2/24/2022	NA	NA	NA	NA	1351	3681	2975	NA	1838	1529	1499	1626
2/25/2022	NA	NA	NA	NA	1324	4138	2995	NA	1884	1723	1579	1621
2/26/2022	NA	NA	NA	NA	1466	4113	3115	4708	1827	1665	1587	1561
2/27/2022	NA	NA	NA	NA	1661	4733	3121	4174	1905	1747	1583	1541
2/28/2022	NA	NA	NA	NA	1504	4047	NA	4652	1730	1568	1619	1603

Notes:All measurements in microsiemens per centimeter ($\mu\text{S}/\text{cm}$)

#N/A or NM = Not measured or otherwise not available

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

No data were available for the following dates/wells:

2/6/2022 O-04 pump problems

2/17 - 2/22/2022 O-03 prep for redevelopment

2/23 - 2/25/2022 O-03 field measurement error

2/28/2022 O-02 pump work

INJECTION AND OBSERVATION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 3. March 2022 Daily Fluid Electrical Conductivity - Injection and Observation Wells

Date	I-01	I-02	I-03	I-04	R-09	O-01	O-02	O-03	O-04	O-05	O-06	O-07
3/1/2022	NA	NA	NA	NA	2007	4208	2967	4662	1792	1745	1611	1732
3/2/2022	NA	NA	NA	NA	2197	4182	2828	4543	1877	1675	1619	1604
3/3/2022	NA	NA	NA	NA	1654	4617	3145	4912	1682	1623	1540	1615
3/4/2022	NA	NA	NA	NA	1501	NA	3191	4720	1714	1620	1582	1569
3/5/2022	NA	NA	NA	NA	1662	NA	3125	5116	1797	1639	1690	1686
3/6/2022	NA	NA	NA	NA	2668	NA	3117	4956	1663	1612	1513	1555
3/7/2022	NA	NA	NA	NA	1647	NA	3050	4605	1679	1656	1492	1484
3/8/2022	NA	NA	NA	NA	2428	NA	3026	4550	1749	1619	1616	1520
3/9/2022	NA	NA	NA	NA	742	NA	2955	4553	1706	1774	1761	1762
3/10/2022	NA	NA	NA	NA	1335	NA	2962	NA	1691	1615	1619	1593
3/11/2022	NA	NA	NA	NA	1029	NA	3209	4745	1736	1626	1623	1641
3/12/2022	905	NA	519	481	NA	NA	3604	1555	1620	1607	1624	1658
3/13/2022	591	NA	494	479	NA	NA	2770	4577	1696	1591	1637	1593
3/14/2022	735	NA	561	528	NA	NA	3084	5023	1878	1665	1641	1585
3/15/2022	1397	NA	1221	1645	NA	NA	NA	NA	1907	1632	1647	1691
3/16/2022	1138	NA	1101	1104	NA	5089	2787	4545	1594	1520	1501	1490
3/17/2022	1367	NA	1668	1582	NA	5166	2829	4627	1630	1542	1498	1491
3/18/2022	1514	NA	1466	1463	NA	NA	2859	4603	1821	1613	1597	1634
3/19/2022	1398	NA	1255	1021	NA	4889	2719	4640	1774	1540	1517	1489
3/20/2022	1839	NA	2009	2412	NA	4917	2670	4708	1733	1578	1524	1482
3/21/2022	1757	NA	1558	1578	NA	4986	2537	4687	NA	NA	1510	1501
3/22/2022	1148	NA	1083	1081	NA	5080	2455	4662	1766	NA	1528	1514
3/23/2022	1234	NA	1231	1229	NA	4808	2301	3853	1735	NA	1544	1541
3/24/2022	1303	NA	1319	1353	NA	NA	2631	4806	1742	1603	1619	1579
3/25/2022	1540	NA	2198	2193	NA	NA	2460	4762	1778	1546	1487	1494
3/26/2022	1540	NA	1682	1437	NA	5031	1589	3917	1764	1532	1486	1482
3/27/2022	1111	NA	1248	1123	NA	5104	1818	NA	1757	1551	1500	1482
3/28/2022	1853	NA	1881	1835	NA	5205	1630	3638	1761	1558	1540	1512
3/29/2022	1230	NA	1187	1318	NA	5075	NA	4181	1717	1537	1517	1497
3/30/2022	2157	NA	2104	1920	NA	5037	NA	4424	1768	1560	1502	1510
3/31/2022	1192	NA	1116	1127	NA	5099	2842	4540	1740	1596	1531	1526

Notes:

All measurements in microsiemens per centimeter ($\mu\text{S}/\text{cm}$)

#NA or NM = Not measured or otherwise not available

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

No injection took place at Injection well I-02 during the quarter

3/12/2022 O-03 outlier

No data were available for the following dates/wells:

3/4 - 3/15/2022 O-01 redevelopment and pump installation

3/10/2022 O-03 Bladder pump malfunction

3/15/2022 O-01, O-02, O-03 pumps off for electrical work

3/18/2022 O-01 field measurement error

3/21/2022 O-04 pump problem

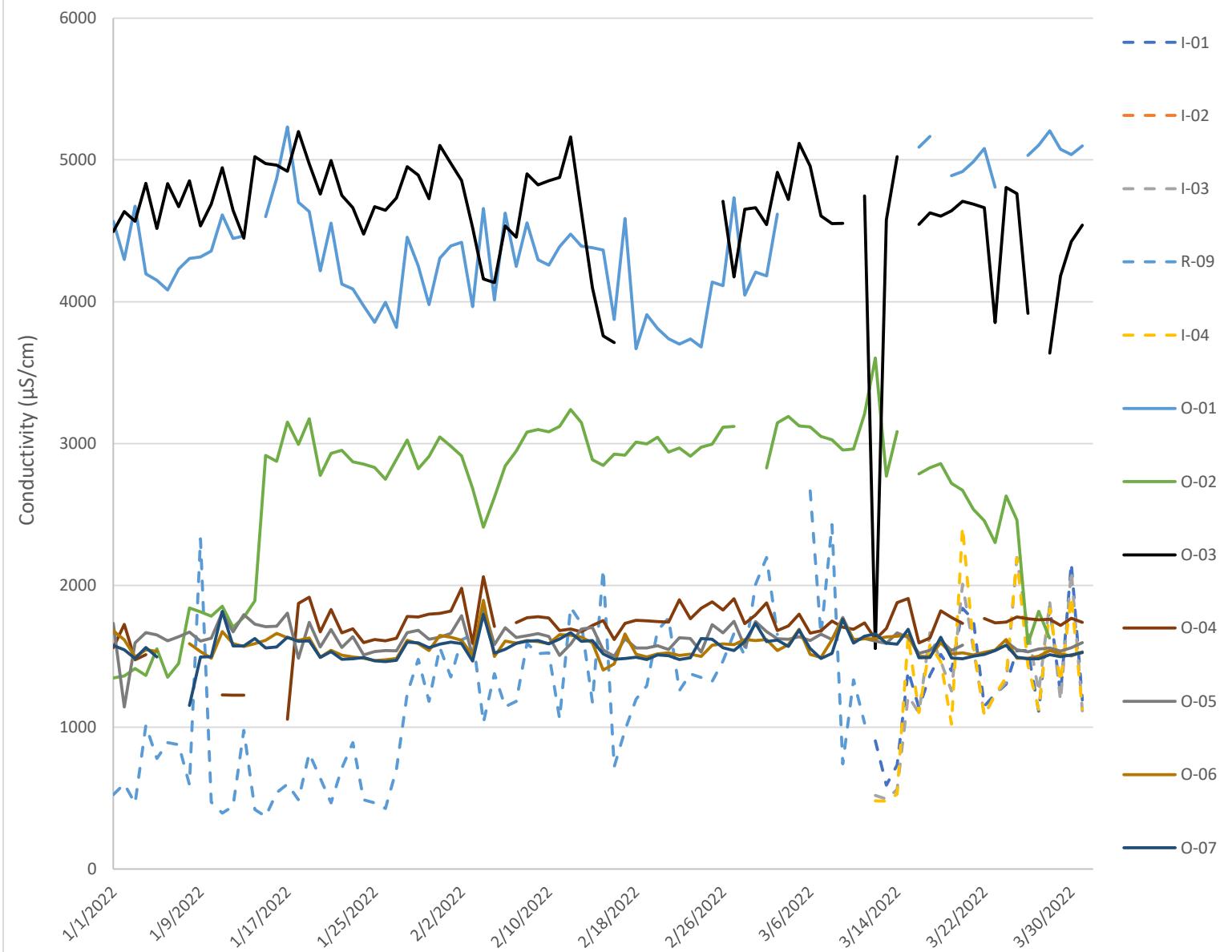
3/21 - 3/23/2022 O-05 pump repairs/replacement

3/24 - 3/25/2022 O-01 pump off for electrical work

3/27/2022 O-03 field measurement error

3/29 - 3/30/2022 O-02 redevelopment and pump replacement

Figure 1. Daily Fluid Electrical Conductivity in Injection & Observation Wells



ATTACHMENT 5

Table and Graphs of Bulk Electrical Conductivity Measurements

MEMORANDUM

28 April 2022
File No. 133887-013

TO: Florence Copper Inc.
Mr. Brent Berg, General Manager

C: Florence Copper Inc.
Mr. Ian Ream, Hydrogeologic Superintendent

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G.

SUBJECT: Summary of Bulk Electrical Conductivity Monitoring Results
First Quarter 2022
Production Test Facility
Florence Copper Inc.
Florence, Arizona



Haley & Aldrich, Inc. (Haley & Aldrich) has conducted statistical analysis of bulk electrical conductivity (EC) data collected by HydroGeophysics, Inc. at the Florence Copper Inc. (Florence Copper) Production Test Facility (PTF) located in Florence, Arizona, in accordance with Underground Injection Control (UIC) Permit No. R9UIC-AZ3-FR11-1. The procedures used to complete the analysis were described in the document titled *Procedures for Determining Bulk Electrical Conductivity Alert Levels* (Haley & Aldrich, 2018).¹

Alert levels (AL) for bulk EC were initially approved in the letter issued by the U.S. Environmental Protection Agency (USEPA) dated 14 December 2018. On 27 February 2020, Florence Copper submitted a request to revise bulk EC ALs to the USEPA. The proposed ALs were adopted in the now-retired Temporary Aquifer Protection Permit (Temporary APP) No. P-106360 on 13 February 2020. The bulk EC ALs remained unchanged in subsequent amendments of the Temporary APP until its retirement on 14 December 2020.

¹ Haley & Aldrich, Inc., 2018. *Procedures for Determining Bulk Electrical Conductivity Alert Levels, Production Test Facility, Florence Copper Project*. August.

Alert Levels

To ensure that in-situ copper recovery fluids do not enter the Lower Basin Fill Unit (LBFU) from the Bedrock Oxide Unit, the three upper horizons (1 through 3) are monitored. The following ALs are established for these horizons:

Electrode Pair Horizon	Alert Level (ohm-meters)
Horizon 1	9.67
Horizon 2	9.89
Horizon 3	10.07

The ALs represent minimum values. Consequently, an exceedance is indicated if the measured apparent resistivity on one of these horizons is *lower* than the established AL on three adjacent or intersecting current paths.

First Quarter 2022 Monitoring Results

First quarter (Q1) 2022 includes 13 monitoring events for bulk EC between 5 January and 30 March 2022. Monitoring events were conducted on a weekly basis. No bulk EC AL exceedances occurred during the Q1 2022 monitoring period. Bulk EC monitoring maps for the monitoring period detail these results (Figures 1 through 13).

Data Summary

Tables 1 through 3 list the apparent resistivity results over this monitoring period for horizons 1 through 3, respectively.

Relative to the baseline dataset, no outliers were detected on these monitoring dates (defined as values over 4 times the interquartile range outside the range around the data median). As shown by the box plots presented in Attachment A and Tables 1 through 3, the grouped data from each horizon fall within the range of the baseline dataset.

Attachment B shows the data from each horizon over time, during the baseline period, and monitoring both before and after the PTF became operational. The data collected during Q1 2022 is within the established tolerance limits.

Enclosures:

Table 1: Bulk Electrical Conductivity Monitoring Results, Horizon 1 (40 Feet Above LBFU/Oxide Contact)

Table 2: Bulk Electrical Conductivity Monitoring Results, Horizon 2 (20 Feet Above LBFU/Oxide Contact)

Table 3: Bulk Electrical Conductivity Monitoring Results, Horizon 3 (at LBFU/Oxide Contact)

Figure 1: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 1/5/2022

Figure 2: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 1/11/2022

Figure 3: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 1/20/2022

Figure 4: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 1/26/2022

Figure 5: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 2/3/2022

Figure 6: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 2/10/2022

Figure 7: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 2/18/2022

Figure 8: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 2/25/2022

Figure 9: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 3/4/2022

Figure 10: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 3/11/2022

Figure 11: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 3/17/2022

Figure 12: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 3/24/2022

Figure 13: Apparent Bulk Resistivity Between Electrode Pairs by Horizon – 3/30/2022

Attachment A: Box Diagrams for First Quarter Monitoring Data

Attachment B: Summary Plot of Bulk Electrical Conductivity

G:\Projects\Florence Copper\133887 Quarterly Monitoring\Deliverables\1Q 2022 Reports\UIC Report\Attachments\UIC 5 - Bulk EC\2022-0428_Bulk EC Summary
Q1_2022_F.docx

TABLES

TABLE 1**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 1 (40 FEET ABOVE LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)												
				1/5/2022	1/11/2022	1/20/2022	1/26/2022	2/3/2022	2/10/2022	2/18/2022	2/25/2022	3/4/2022	3/11/2022	3/17/2022	3/24/2022	3/30/2022
B-01-BC-01	B-02-BC-01	O-01	O-02	12.84	12.80	12.83	12.86	12.84	12.88	12.84	12.77	12.75	12.83	12.82	12.72	12.80
B-01-BC-01	B-03-BC1-02	O-01	O-03	11.55	11.38	11.47	11.54	11.45	11.53	11.51	11.33	11.30	11.46	11.52	11.29	11.37
B-01-BC-01	B-04-BC-01	O-01	O-04	13.42	13.45	13.53	13.65	13.52	13.64	13.60	13.38	13.36	13.56	13.61	13.29	13.38
B-01-BC-01	B-05-BC-01	O-01	O-05	12.18	12.33	12.43	12.50	12.39	12.51	12.48	12.29	12.24	12.40	12.48	12.23	12.31
B-01-BC-01	B-06-BC-01	O-01	O-06	11.60	11.81	11.86	11.94	11.88	11.93	11.92	11.75	11.72	11.88	11.90	11.81	11.78
B-01-BC-01	B-07-BC1-02	O-01	O-07	11.75	11.88	11.92	11.97	11.94	11.96	11.96	11.85	11.82	11.96	11.98	11.91	11.89
B-02-BC-01	B-03-BC1-02	O-02	O-03	10.54	10.52	10.58	10.64	10.59	10.63	10.60	10.47	10.46	10.57	10.62	10.44	10.51
B-02-BC-01	B-04-BC-01	O-02	O-04	13.87	14.08	14.21	14.29	14.19	14.31	14.24	13.99	13.96	14.14	14.22	13.96	14.04
B-02-BC-01	B-05-BC-01	O-02	O-05	13.19	13.57	13.67	13.74	13.69	13.74	13.69	13.48	13.46	13.61	13.68	13.43	13.53
B-02-BC-01	B-06-BC-01	O-02	O-06	13.05	13.50	13.60	13.66	13.61	13.67	13.63	13.40	13.38	13.57	13.65	13.38	13.45
B-02-BC-01	B-07-BC1-02	O-02	O-07	12.13	12.46	12.52	12.63	12.56	12.61	12.58	12.39	12.37	12.50	12.56	12.34	12.46
B-03-BC1-02	B-04-BC-01	O-03	O-04	12.48	12.69	12.77	12.84	12.77	12.84	12.79	12.62	12.60	12.78	12.77	12.57	12.66
B-03-BC1-02	B-05-BC-01	O-03	O-05	12.70	13.12	13.20	13.25	13.18	13.25	13.22	13.02	12.99	13.19	13.22	12.98	13.09
B-03-BC1-02	B-06-BC-01	O-03	O-06	13.64	14.19	14.30	14.38	14.27	14.39	14.33	14.08	14.06	14.27	14.33	14.06	14.19
B-03-BC1-02	B-07-BC1-02	O-03	O-07	12.96	13.50	13.58	13.66	13.55	13.78	13.63	13.38	13.35	13.58	13.61	13.38	13.46
B-04-BC-01	B-05-BC-01	O-04	O-05	10.73	10.81	10.86	10.88	10.86	10.88	10.86	10.80	10.78	10.83	10.86	10.77	10.80
B-04-BC-01	B-06-BC-01	O-04	O-06	12.22	12.46	12.55	12.58	12.52	12.61	12.58	12.40	12.36	12.52	12.56	12.36	12.44
B-04-BC-01	B-07-BC1-02	O-04	O-07	12.81	13.09	13.16	13.23	13.14	13.25	13.20	13.00	12.97	13.13	13.17	12.92	13.07
B-05-BC-01	B-06-BC-01	O-05	O-06	10.22	10.29	10.32	10.36	10.32	10.38	10.34	10.24	10.22	10.31	10.34	10.23	10.26
B-05-BC-01	B-07-BC1-02	O-05	O-07	10.96	11.04	11.10	11.15	11.10	11.15	11.14	10.99	10.95	11.09	11.14	10.97	10.99
B-06-BC-01	B-07-BC1-02	O-06	O-07	10.11	10.10	10.14	10.17	10.15	10.17	10.15	10.07	10.06	10.12	10.14	10.07	10.09

Notes $\Omega\text{-m}$ = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 1 Alert Level = 9.67 $\Omega\text{-m}$

TABLE 2**BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS****HORIZON 2 (20 FEET ABOVE LBFU/OXIDE CONTACT)**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)												
				1/5/2022	1/11/2022	1/20/2022	1/26/2022	2/3/2022	2/10/2022	2/18/2022	2/25/2022	3/4/2022	3/11/2022	3/17/2022	3/24/2022	3/30/2022
B-01-BC-02	B-02-BC-02	O-01	O-02	14.54	14.47	14.50	14.56	14.53	14.54	14.53	14.45	14.42	14.47	14.49	14.42	14.49
B-01-BC-02	B-03-BC1-04	O-01	O-03	11.66	11.49	11.58	11.65	11.63	11.56	11.64	11.46	11.42	11.58	11.65	11.50	11.52
B-01-BC-02	B-04-BC-02	O-01	O-04	13.34	13.37	13.47	13.59	13.50	13.55	13.54	13.33	13.29	13.47	13.54	13.33	13.31
B-01-BC-02	B-05-BC-02	O-01	O-05	12.07	12.23	12.32	12.39	12.32	12.38	12.39	12.20	12.15	12.33	12.37	12.24	12.21
B-01-BC-02	B-06-BC-02	O-01	O-06	11.50	11.70	11.77	11.83	11.80	11.82	11.82	11.67	11.64	11.76	11.81	11.72	11.71
B-01-BC-02	B-07-BC1-04	O-01	O-07	11.75	11.88	11.92	11.97	11.97	11.96	11.97	11.86	11.82	11.95	11.96	11.91	11.90
B-02-BC-02	B-03-BC1-04	O-02	O-03	11.23	11.20	11.25	11.33	11.30	11.32	11.29	11.17	11.14	11.26	11.31	11.13	11.23
B-02-BC-02	B-04-BC-02	O-02	O-04	14.02	14.21	14.33	14.42	14.32	14.42	14.38	14.13	14.09	14.30	14.35	14.05	14.18
B-02-BC-02	B-05-BC-02	O-02	O-05	13.25	13.64	13.75	13.80	13.70	13.85	13.77	13.57	13.53	13.70	13.77	13.48	13.62
B-02-BC-02	B-06-BC-02	O-02	O-06	13.13	13.57	13.67	13.72	13.62	13.73	13.70	13.50	13.45	13.68	13.76	13.44	13.53
B-02-BC-02	B-07-BC1-04	O-02	O-07	12.17	12.50	12.55	12.63	12.59	12.64	12.60	12.43	12.42	12.54	12.59	12.38	12.49
B-03-BC1-04	B-04-BC-02	O-03	O-04	12.50	12.70	12.78	12.85	12.77	12.82	12.81	12.65	12.62	12.74	12.81	12.58	12.65
B-03-BC1-04	B-05-BC-02	O-03	O-05	12.60	13.00	13.11	13.15	13.08	13.16	13.14	12.94	12.91	13.05	13.13	12.85	12.98
B-03-BC1-04	B-06-BC-02	O-03	O-06	13.56	14.13	14.21	14.29	14.18	14.28	14.25	14.00	13.99	14.16	14.25	13.96	14.09
B-03-BC1-04	B-07-BC1-04	O-03	O-07	12.78	13.31	13.39	13.47	13.40	13.46	13.43	13.20	13.18	13.37	13.45	13.15	13.24
B-04-BC-02	B-05-BC-02	O-04	O-05	11.08	11.18	11.20	11.22	11.20	11.25	11.22	11.14	11.13	11.19	11.21	11.11	11.18
B-04-BC-02	B-06-BC-02	O-04	O-06	12.23	12.46	12.54	12.58	12.51	12.62	12.57	12.41	12.37	12.51	12.56	12.38	12.45
B-04-BC-02	B-07-BC1-04	O-04	O-07	12.61	12.89	12.95	13.03	12.97	13.05	13.00	12.80	12.78	12.91	12.98	12.76	12.84
B-05-BC-02	B-06-BC-02	O-05	O-06	10.45	10.50	10.55	10.58	10.56	10.60	10.56	10.47	10.45	10.54	10.56	10.45	10.50
B-05-BC-02	B-07-BC1-04	O-05	O-07	10.81	10.88	10.96	11.00	10.98	11.00	10.99	10.84	10.81	10.93	10.95	10.81	10.86
B-06-BC-02	B-07-BC1-04	O-06	O-07	10.88	10.88	10.90	10.94	10.92	10.91	10.91	10.84	10.82	10.88	10.90	10.82	10.88

Notes $\Omega\text{-m}$ = ohm-meters

LBFU = Lower Basin Fill Unit

Oxide = Bedrock Oxide Unit

Horizon 2 Alert Level = 9.89 $\Omega\text{-m}$

TABLE 3

BULK ELECTRICAL CONDUCTIVITY MONITORING RESULTS

HORIZON 3 (AT LBFU/OXIDE CONTACT)

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Electrode 1	Electrode 2	Sending Well	Receiving Well	Apparent Resistivity ($\Omega\text{-m}$)												
				1/5/2022	1/11/2022	1/20/2022	1/26/2022	2/3/2022	2/10/2022	2/18/2022	2/25/2022	3/4/2022	3/11/2022	3/17/2022	3/24/2022	3/30/2022
B-01-BC-03	B-02-BC-03	O-01	O-02	15.41	15.32	15.37	15.42	15.41	15.42	15.39	15.31	15.20	15.24	15.24	15.18	15.36
B-01-BC-03	B-03-BC2-02	O-01	O-03	11.82	11.65	11.74	11.84	11.79	11.82	11.81	11.58	11.57	11.80	11.85	11.68	11.67
B-01-BC-03	B-04-BC-03	O-01	O-04	13.32	13.32	13.40	13.51	13.40	13.51	13.50	13.30	13.26	13.52	13.56	13.30	13.33
B-01-BC-03	B-05-BC-03	O-01	O-05	11.99	12.16	12.24	12.31	12.23	12.34	12.31	12.15	12.09	12.31	12.41	12.21	12.17
B-01-BC-03	B-06-BC-03	O-01	O-06	11.39	11.58	11.64	11.71	11.64	11.69	11.70	11.55	11.51	11.70	11.73	11.62	11.61
B-01-BC-03	B-07-BC2-02	O-01	O-07	12.02	12.15	12.19	12.23	12.22	12.23	12.23	12.14	12.06	12.19	12.23	12.15	12.17
B-02-BC-03	B-03-BC2-02	O-02	O-03	11.28	11.22	11.31	11.38	11.33	11.37	11.39	11.54	11.23	11.31	11.38	11.20	11.32
B-02-BC-03	B-04-BC-03	O-02	O-04	13.91	14.09	14.21	14.25	14.17	14.32	14.24	14.04	13.99	14.19	14.26	13.92	14.08
B-02-BC-03	B-05-BC-03	O-02	O-05	13.17	13.53	13.62	13.67	13.59	13.70	13.65	13.45	13.45	13.60	13.67	13.40	13.54
B-02-BC-03	B-06-BC-03	O-02	O-06	13.03	13.45	13.55	13.60	13.51	13.62	13.59	13.39	13.36	13.57	13.62	13.34	13.46
B-02-BC-03	B-07-BC2-02	O-02	O-07	12.26	12.59	12.67	12.74	12.69	12.75	12.71	12.56	12.53	12.69	12.71	12.53	12.59
B-03-BC2-02	B-04-BC-03	O-03	O-04	12.46	12.67	12.76	12.82	12.75	12.85	12.80	12.62	12.60	12.72	12.77	12.50	12.67
B-03-BC2-02	B-05-BC-03	O-03	O-05	12.83	13.23	13.33	13.37	13.31	13.42	13.35	12.95	13.10	13.25	13.34	13.03	13.21
B-03-BC2-02	B-06-BC-03	O-03	O-06	13.98	14.54	14.62	14.69	14.59	14.71	14.62	14.07	14.36	14.53	14.65	14.28	14.44
B-03-BC2-02	B-07-BC2-02	O-03	O-07	13.10	13.62	13.70	13.79	13.72	13.80	13.73	13.22	13.46	13.63	13.74	13.42	13.56
B-04-BC-03	B-05-BC-03	O-04	O-05	11.78	11.89	11.92	11.95	11.92	11.96	11.93	11.87	11.85	11.91	11.93	11.83	11.87
B-04-BC-03	B-06-BC-03	O-04	O-06	12.34	12.57	12.65	12.70	12.63	12.74	12.69	12.53	12.50	12.63	12.70	12.49	12.58
B-04-BC-03	B-07-BC2-02	O-04	O-07	12.52	12.79	12.85	12.92	12.88	12.96	12.91	12.72	12.70	12.82	12.88	12.61	12.78
B-05-BC-03	B-06-BC-03	O-05	O-06	10.72	10.78	10.82	10.86	10.81	10.88	10.85	10.75	10.73	10.82	10.84	10.73	10.76
B-05-BC-03	B-07-BC2-02	O-05	O-07	10.68	10.76	10.82	10.86	10.82	10.89	10.87	10.72	10.69	10.81	10.83	10.68	10.73
B-06-BC-03	B-07-BC2-02	O-06	O-07	11.11	11.08	11.12	11.16	11.15	11.15	11.14	11.06	11.04	11.11	11.13	11.07	11.10

Notes

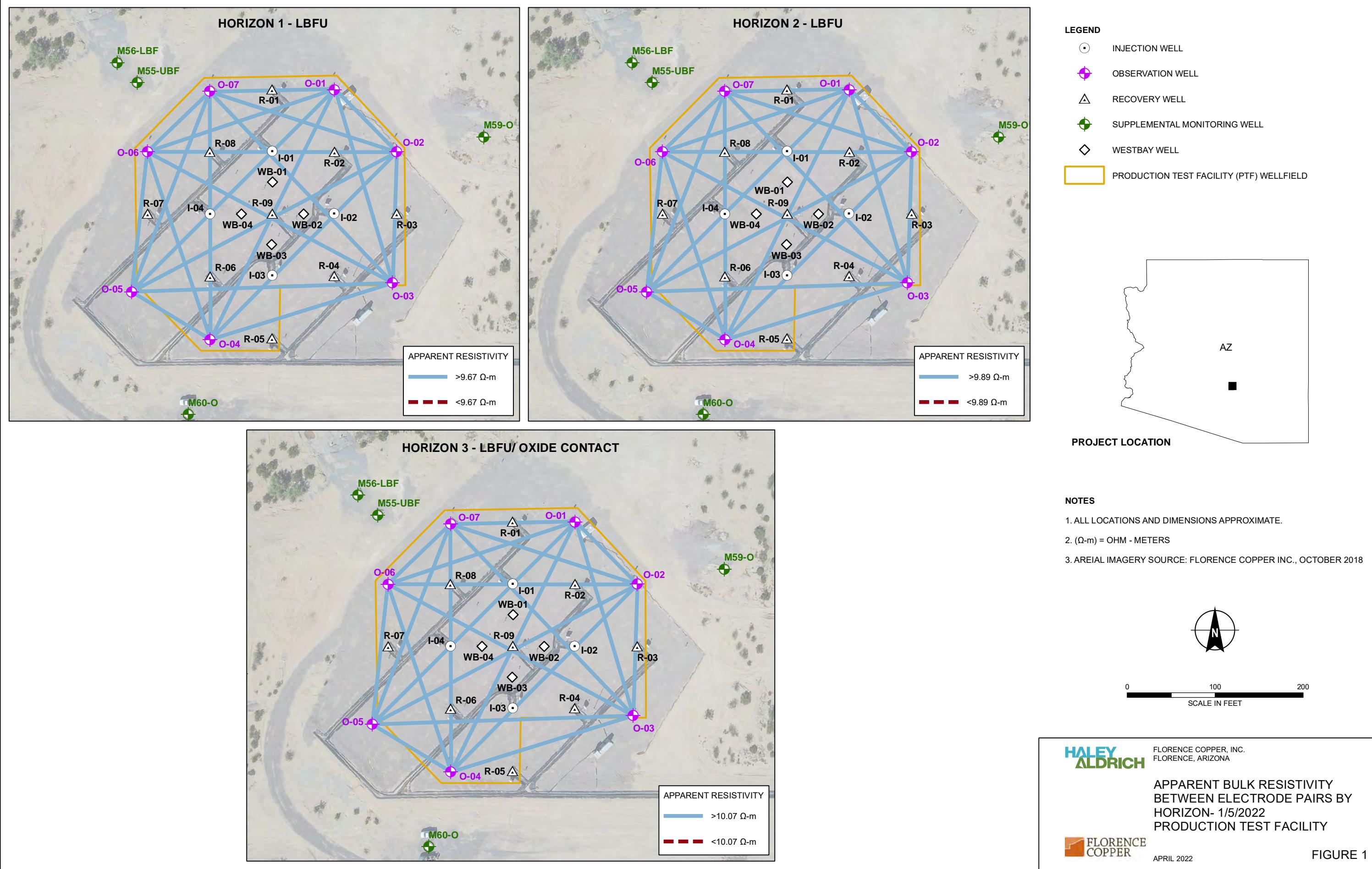
 $\Omega\text{-m}$ = ohm-meters

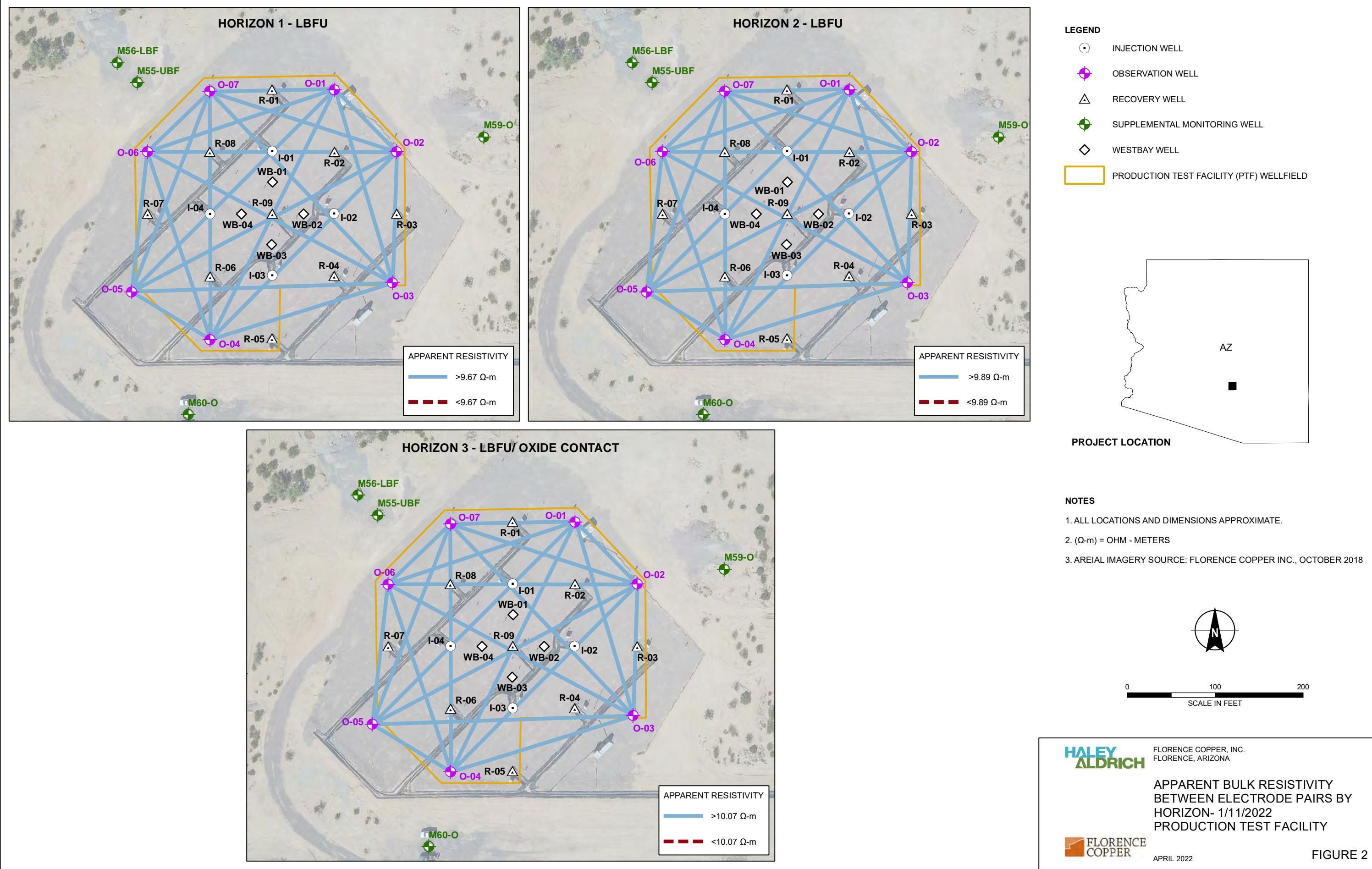
LBFU = Lower Basin Fill Unit

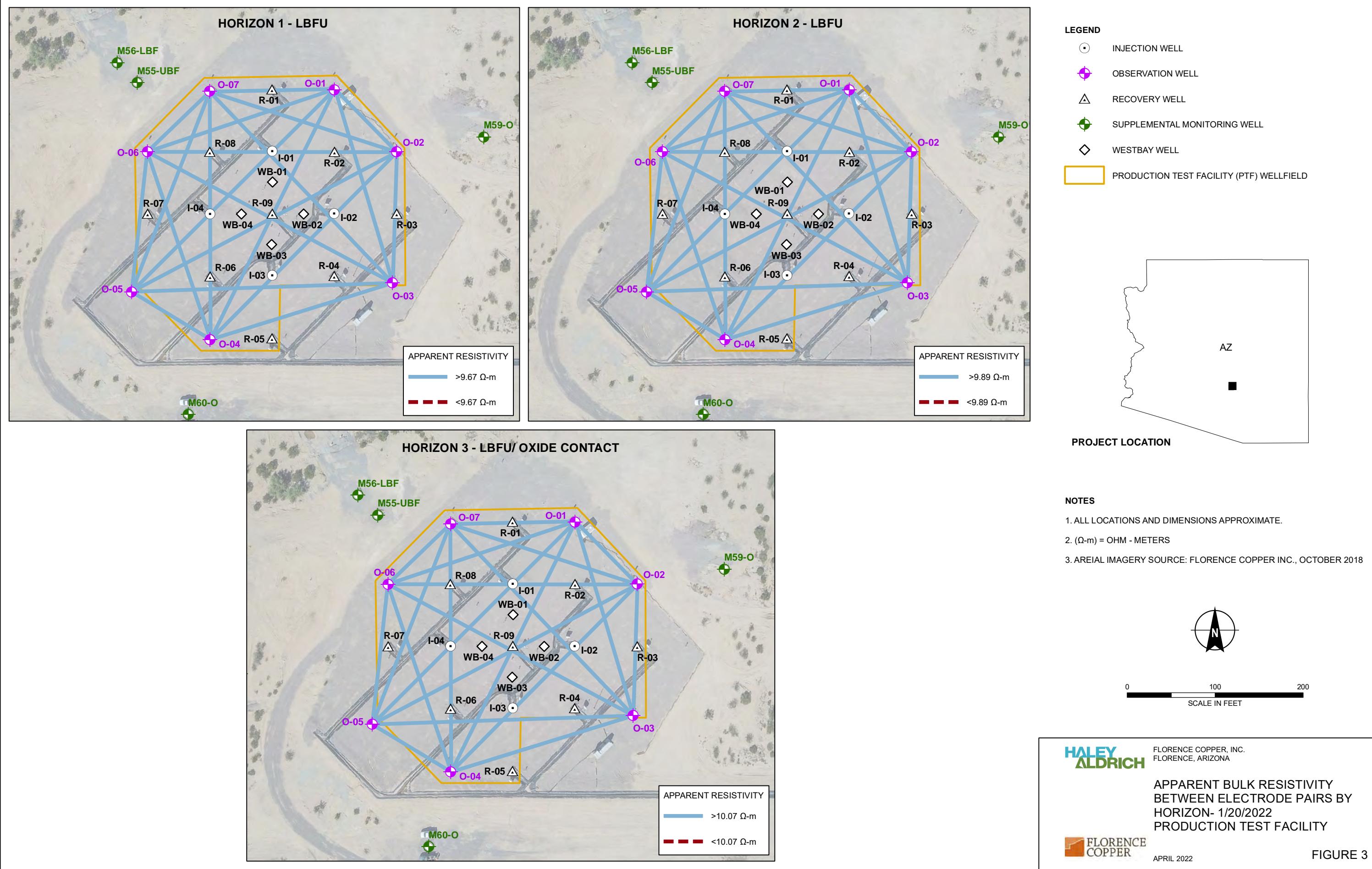
Oxide = Bedrock Oxide Unit

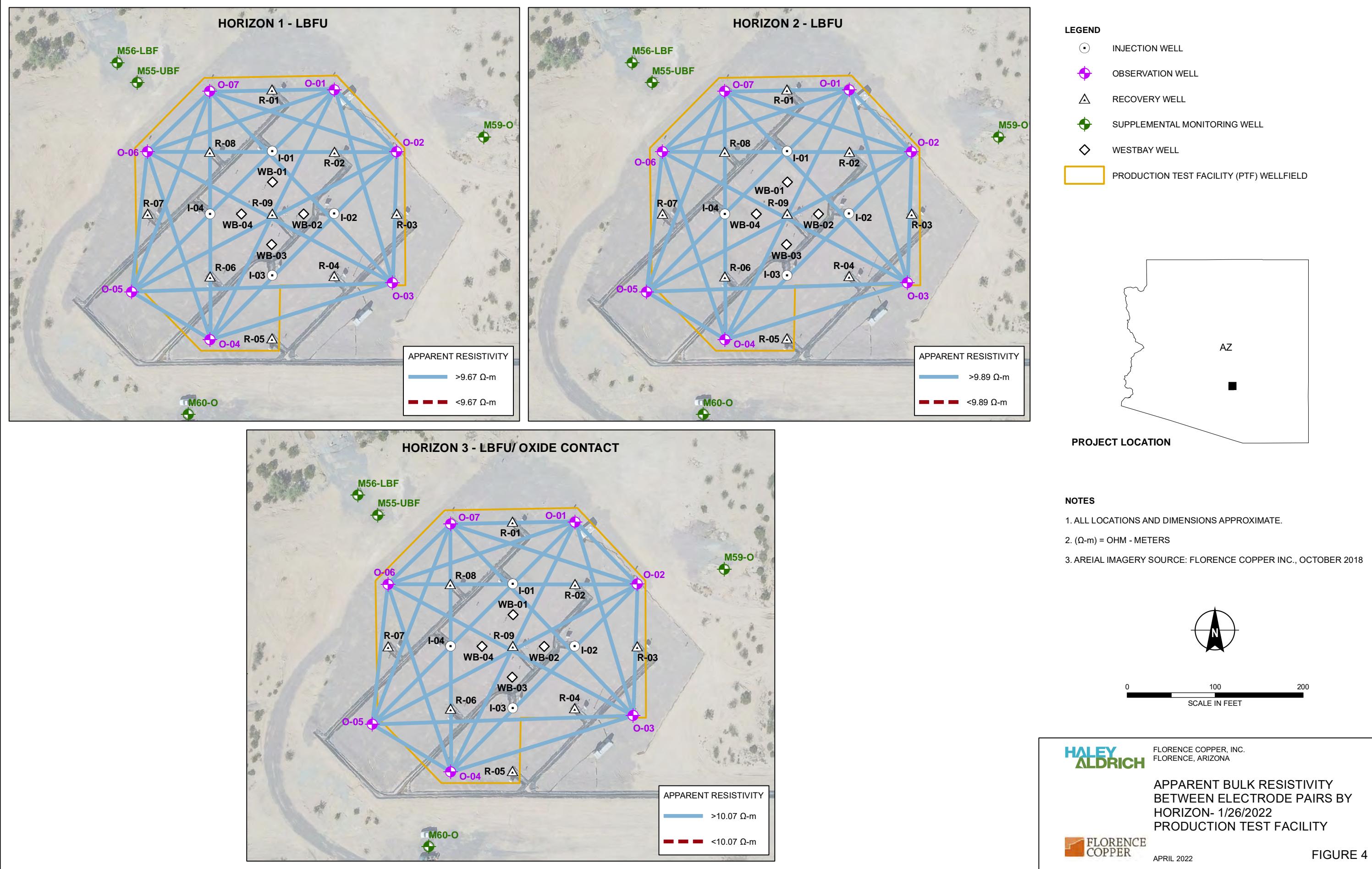
Horizon 3 Alert Level = 10.07 $\Omega\text{-m}$

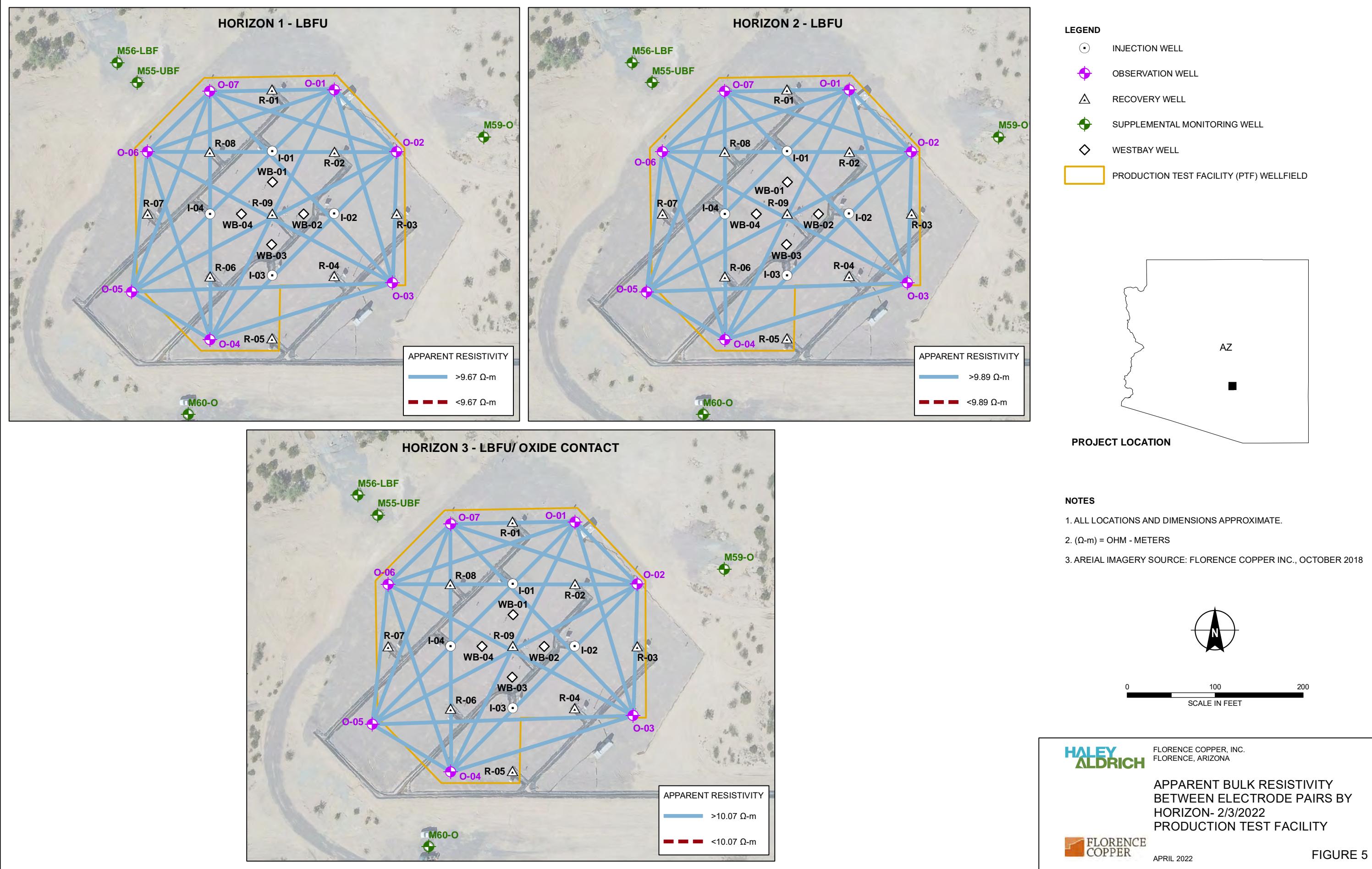
FIGURES

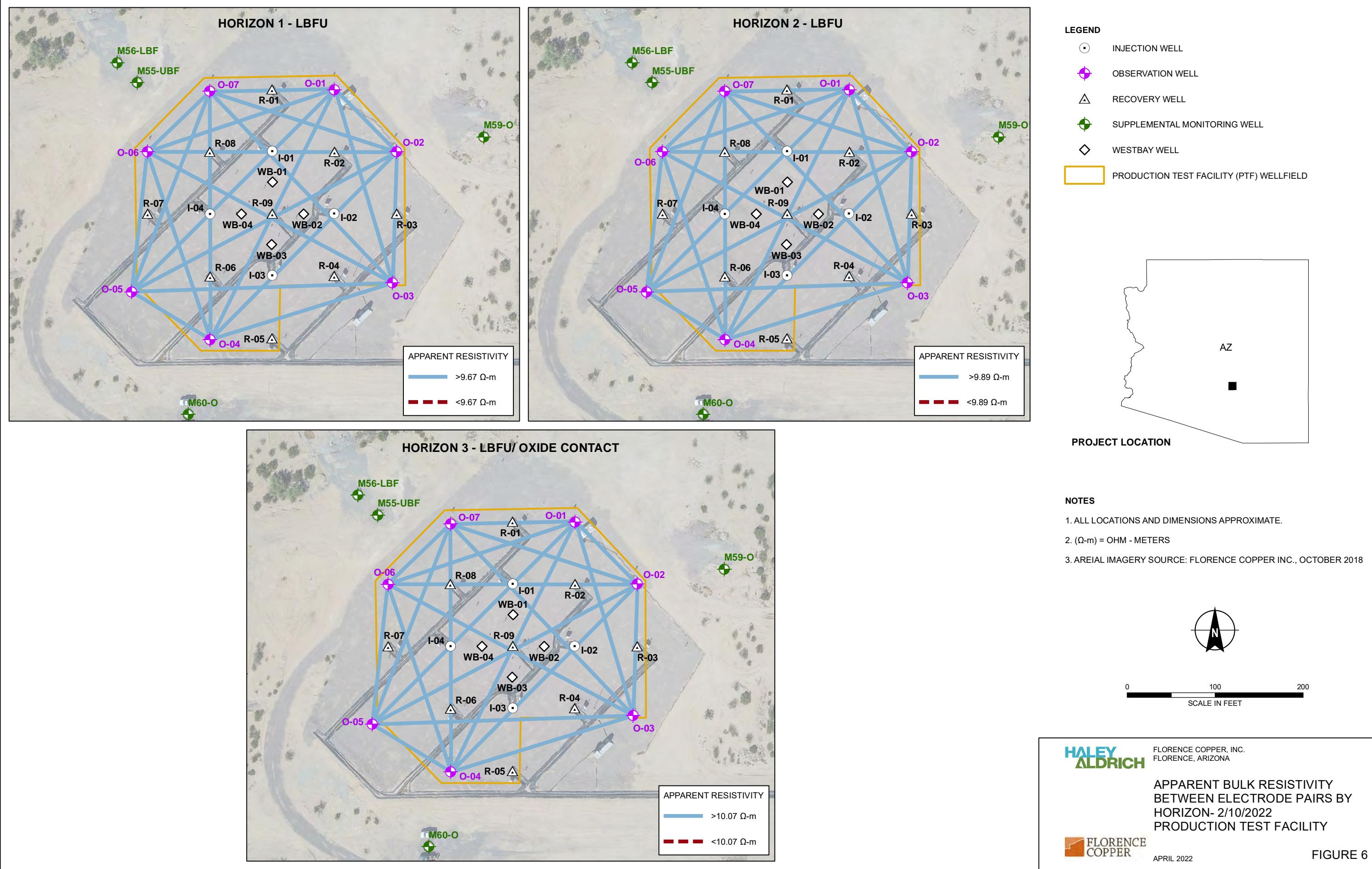


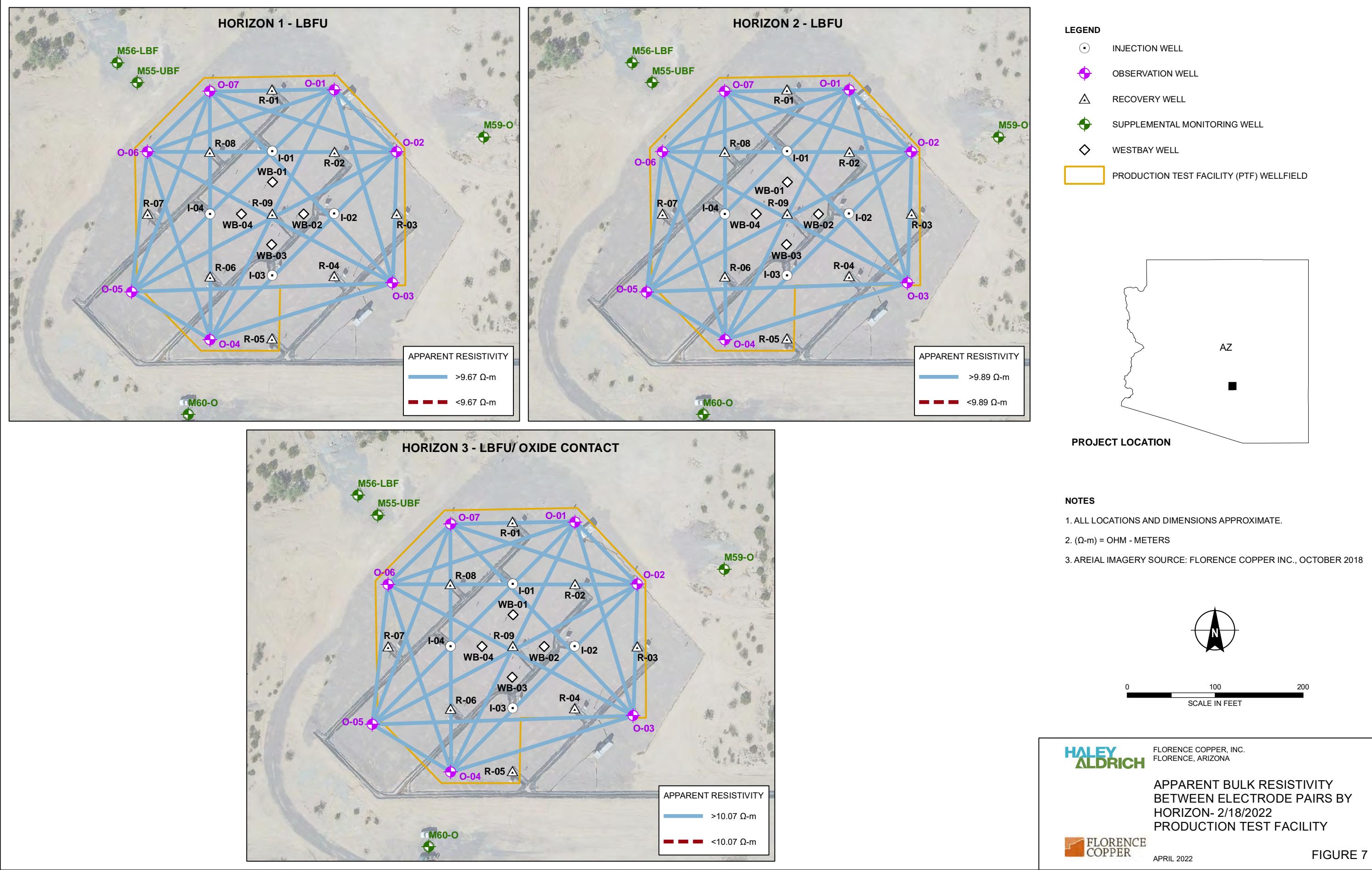


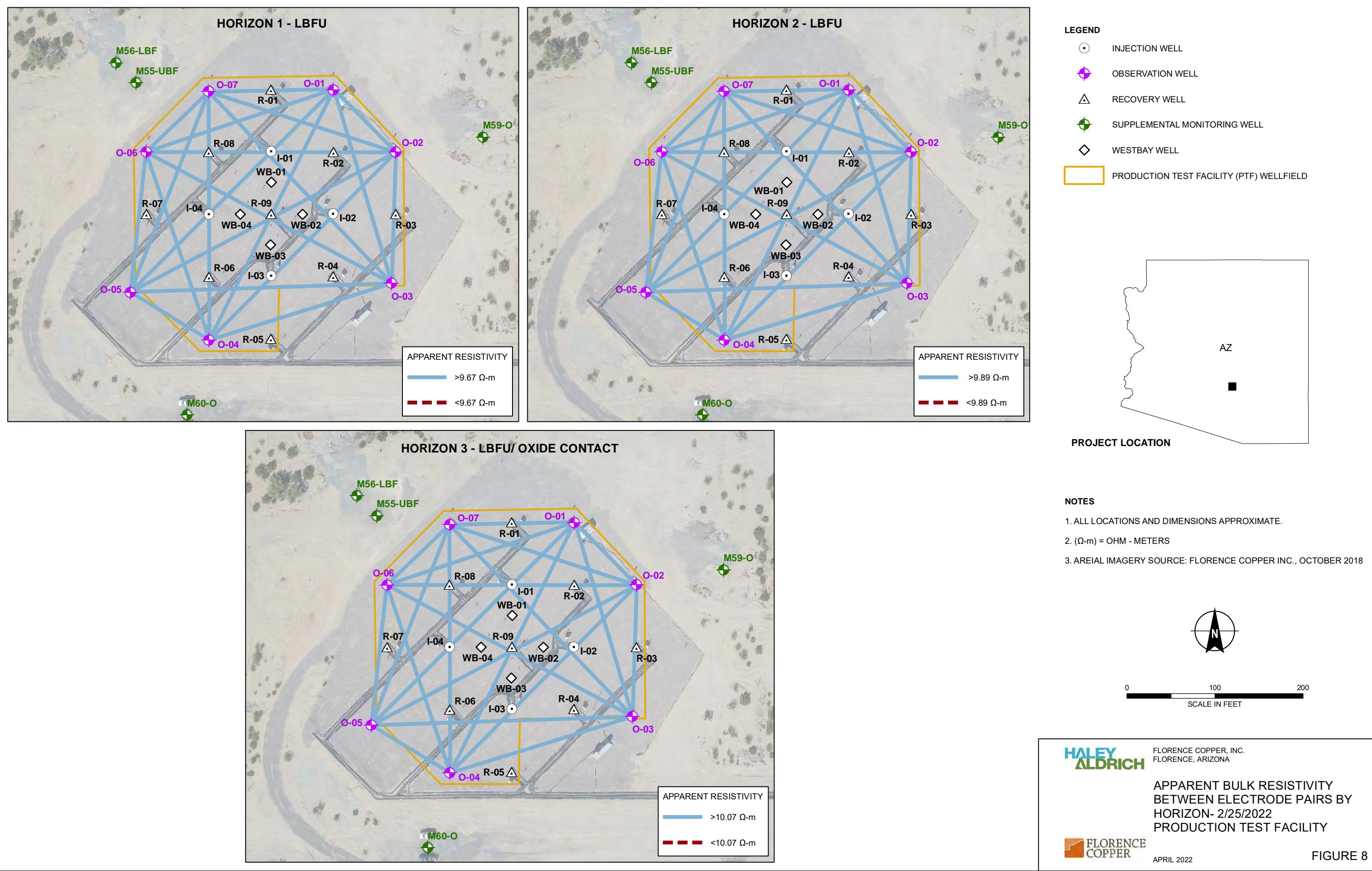


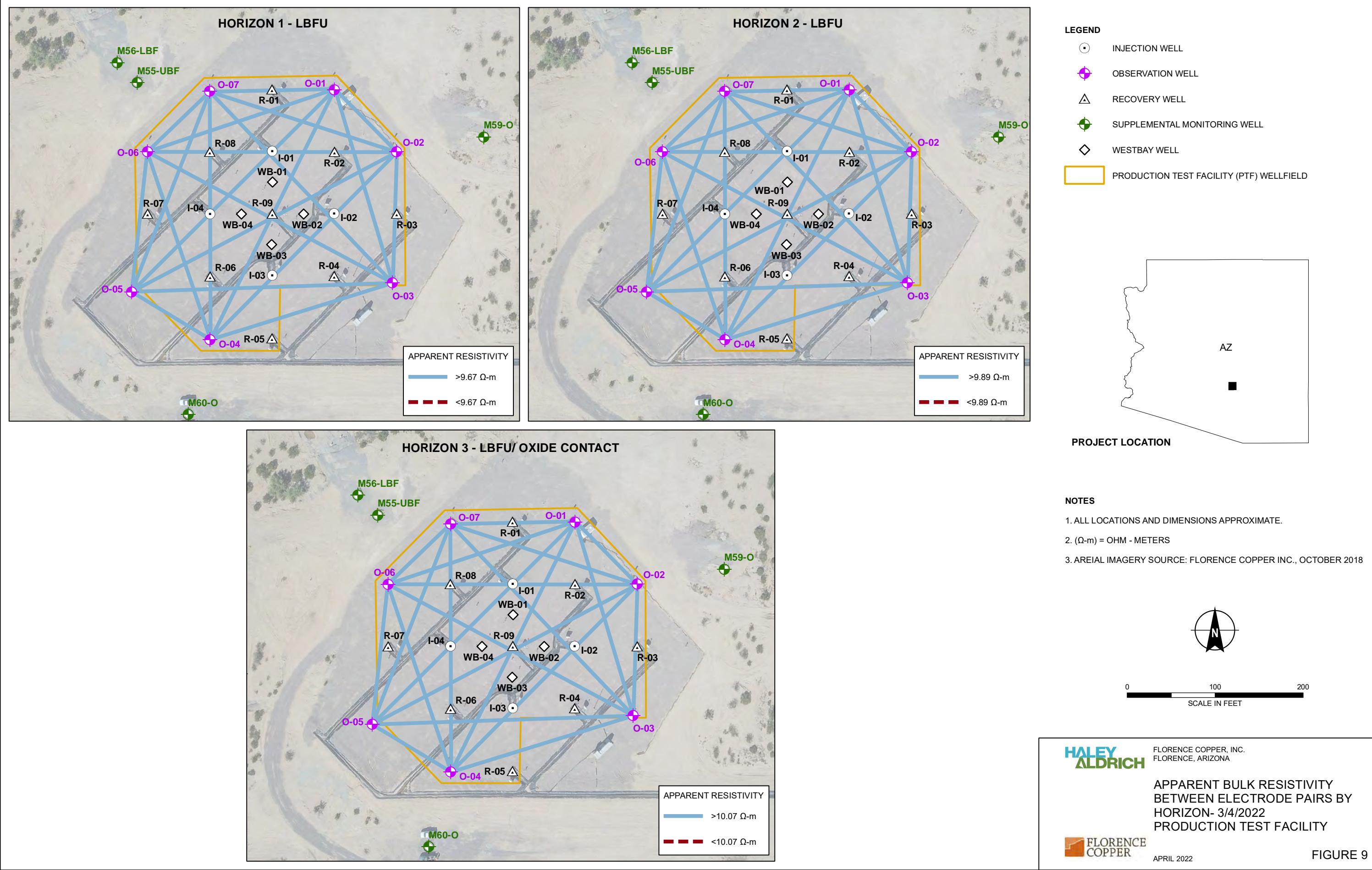


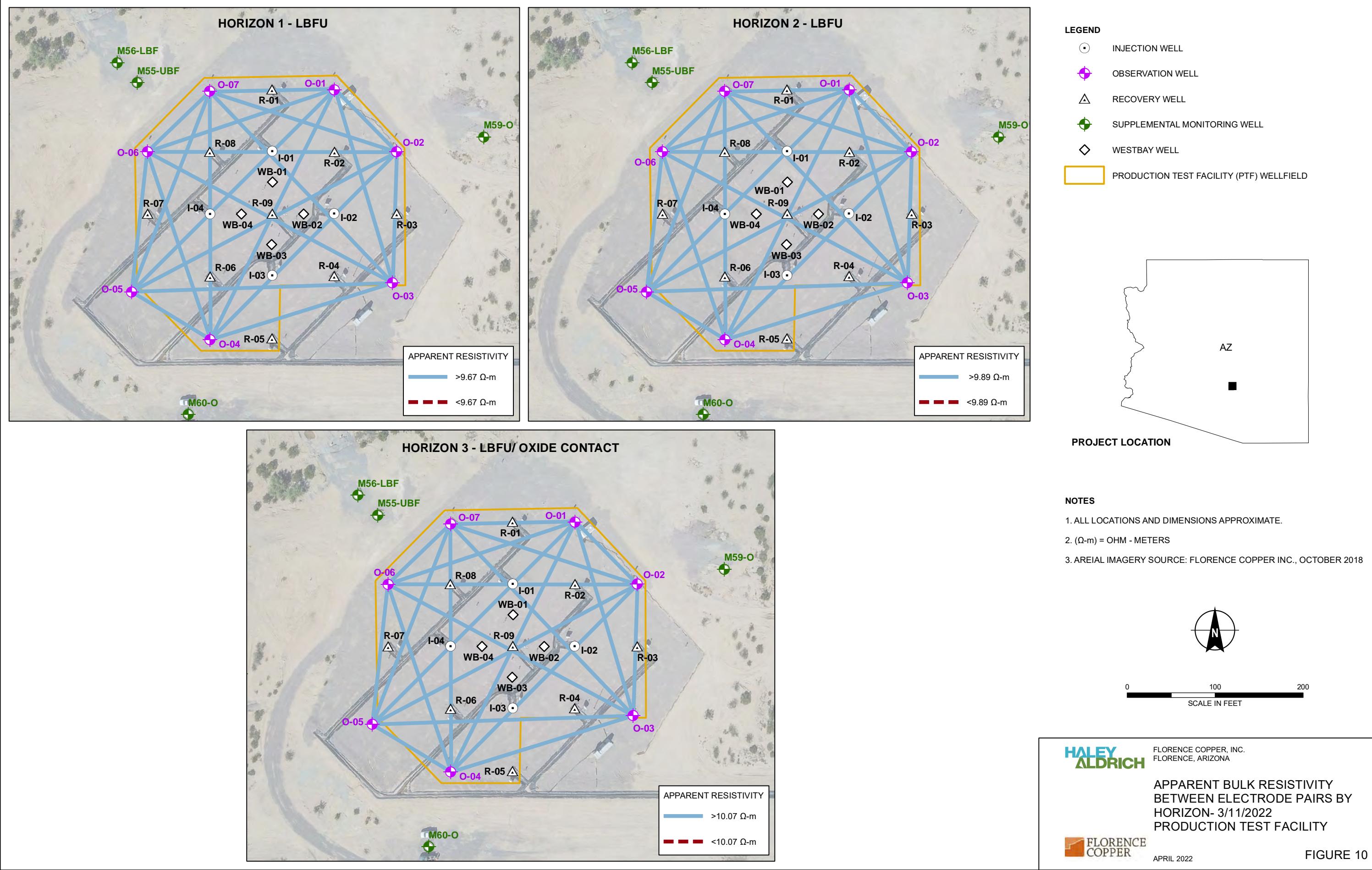


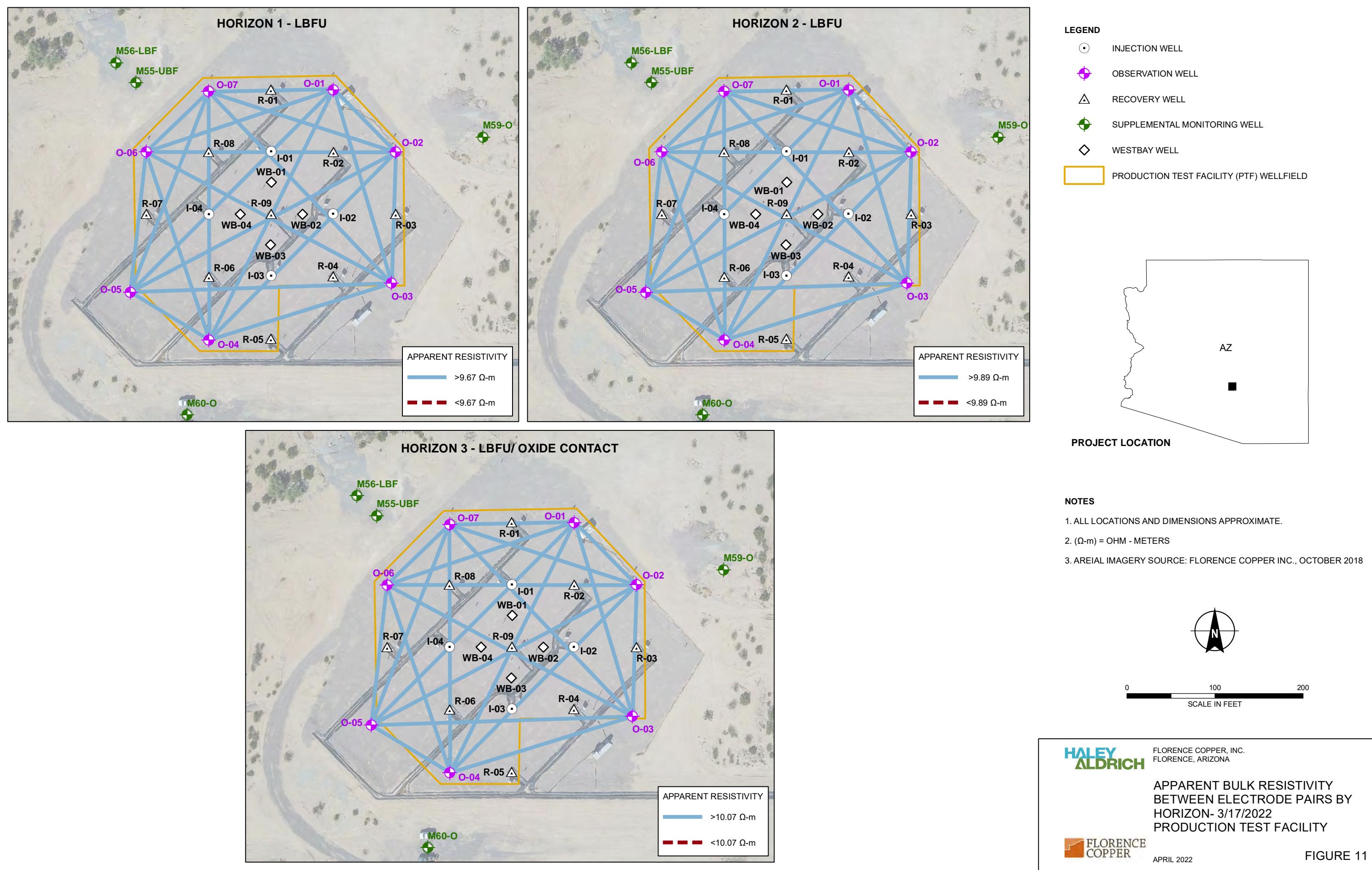


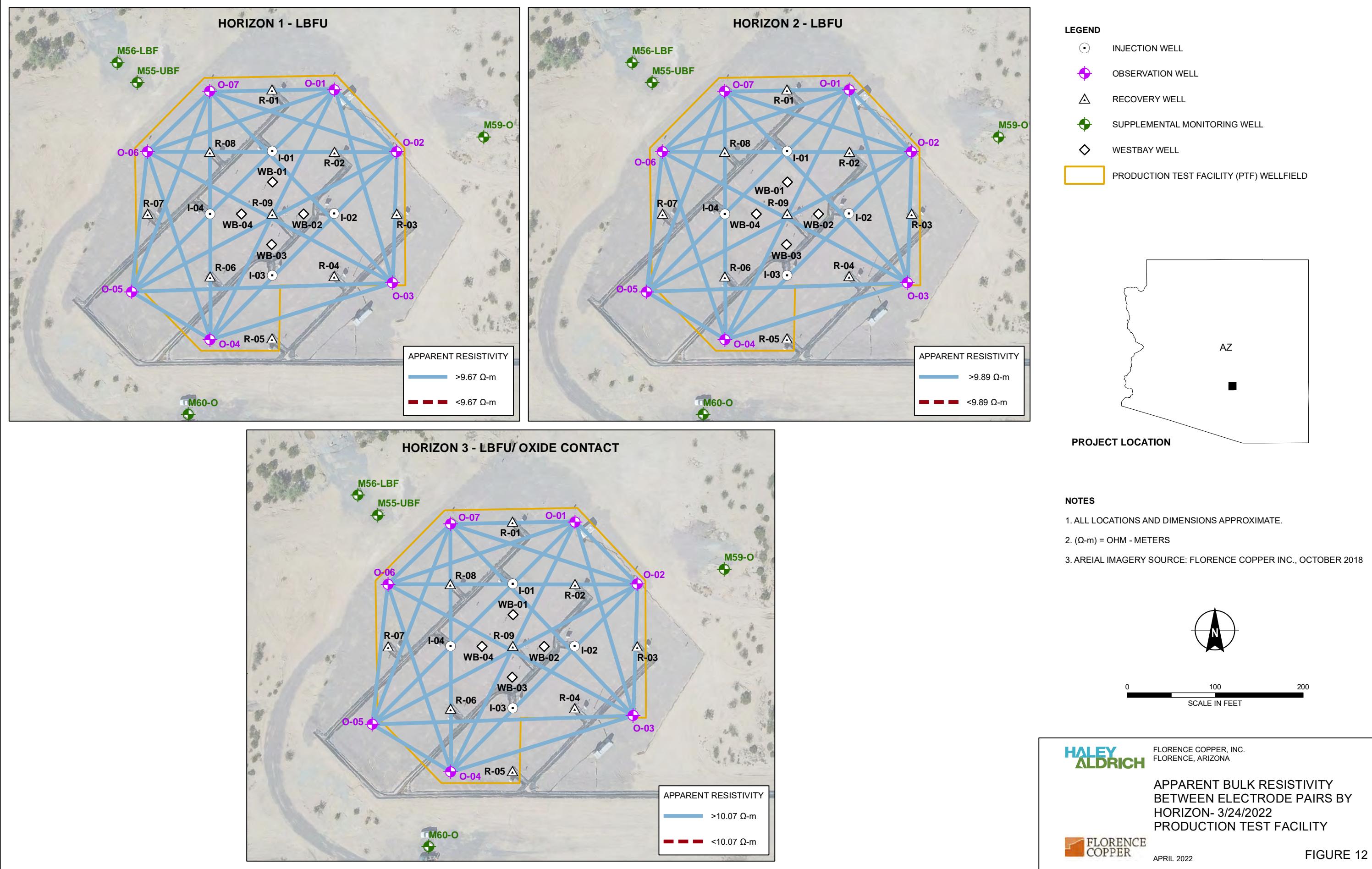


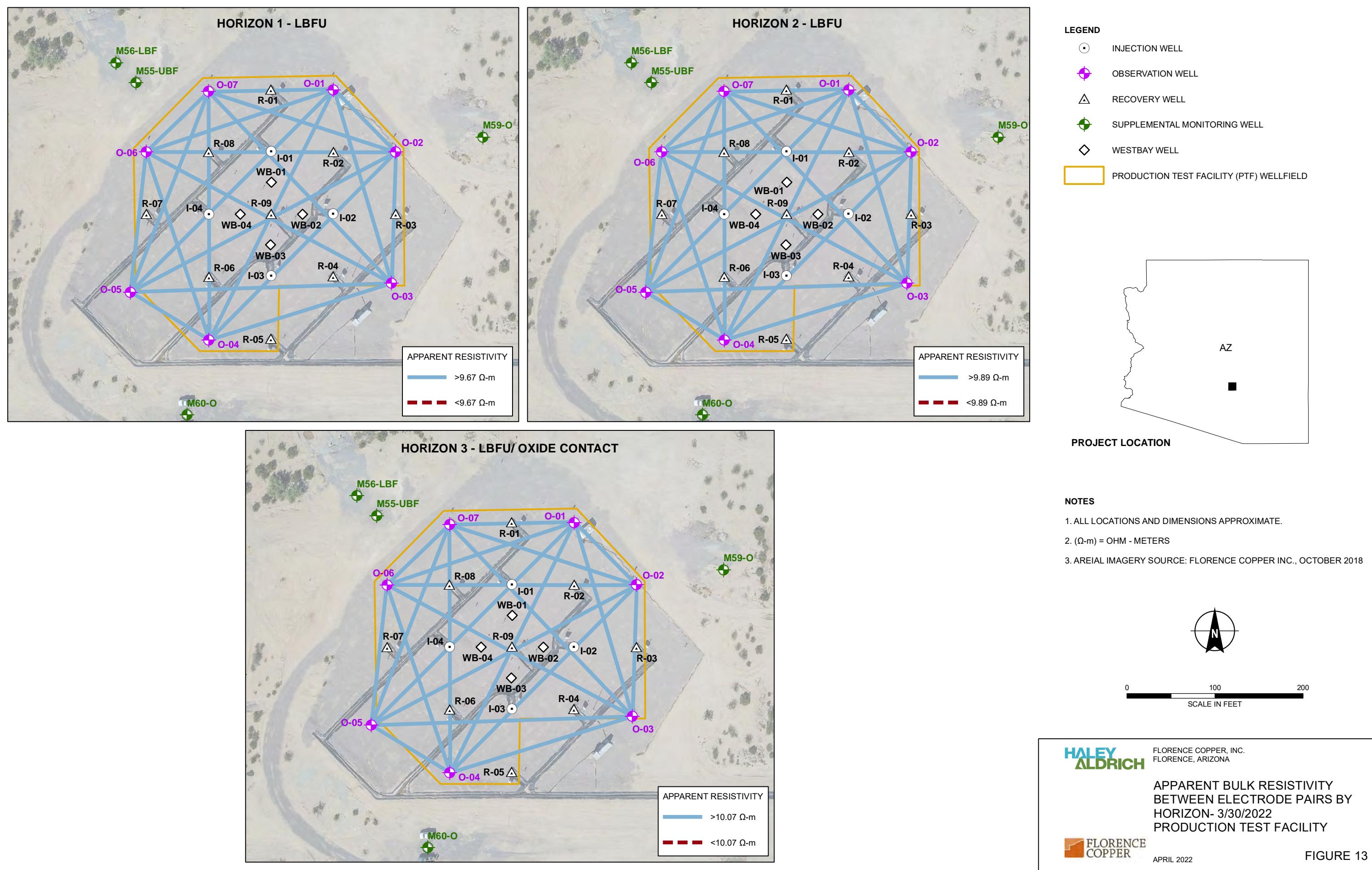








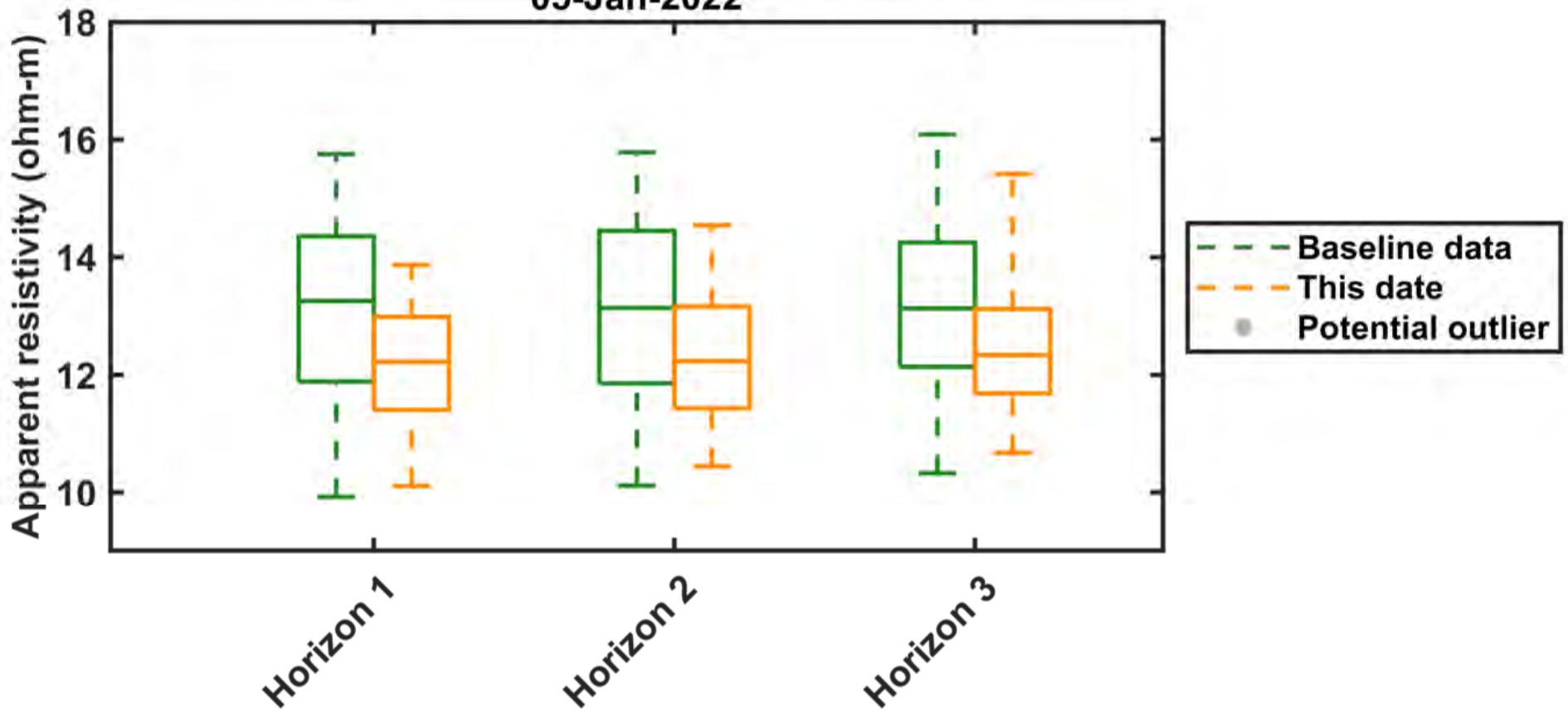




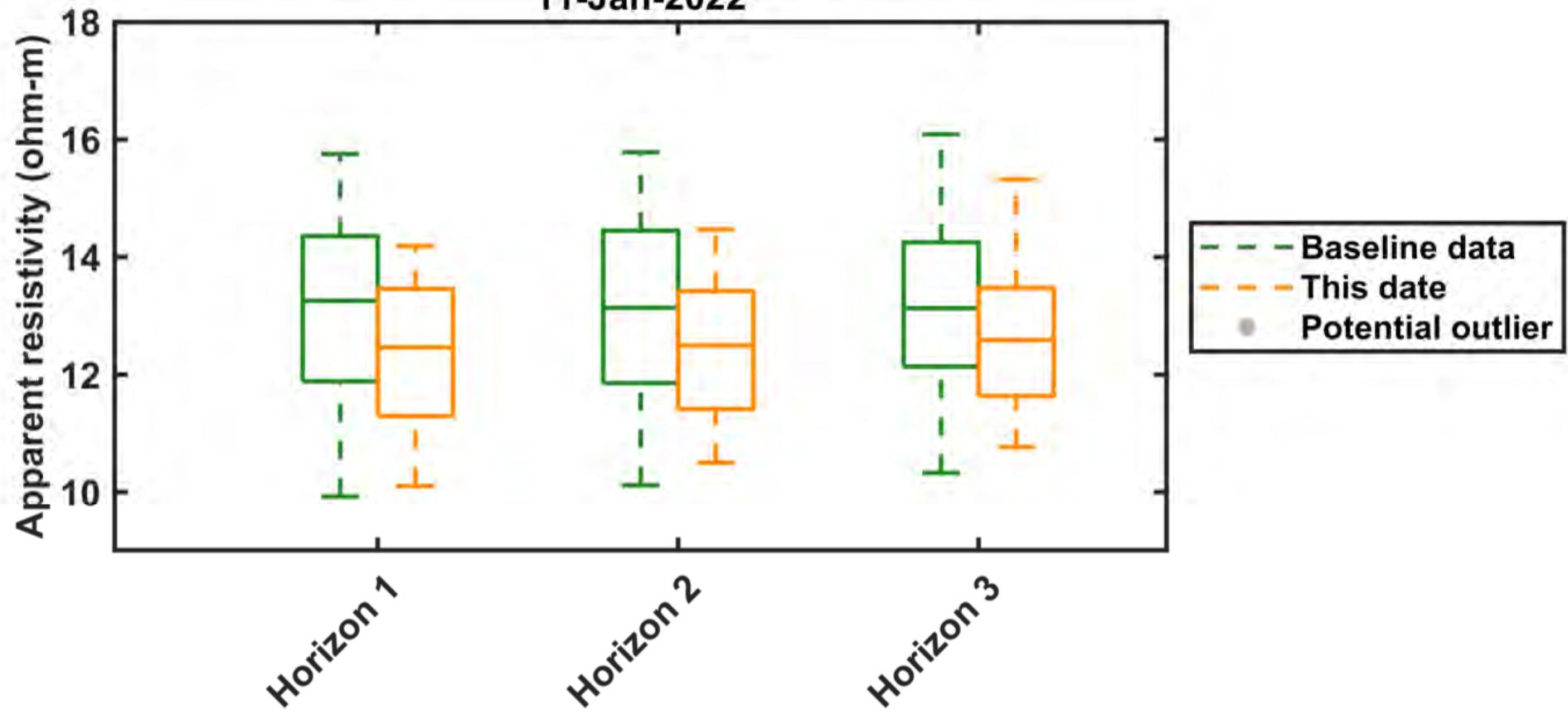
ATTACHMENT A

Box Diagrams for First Quarter Monitoring Data

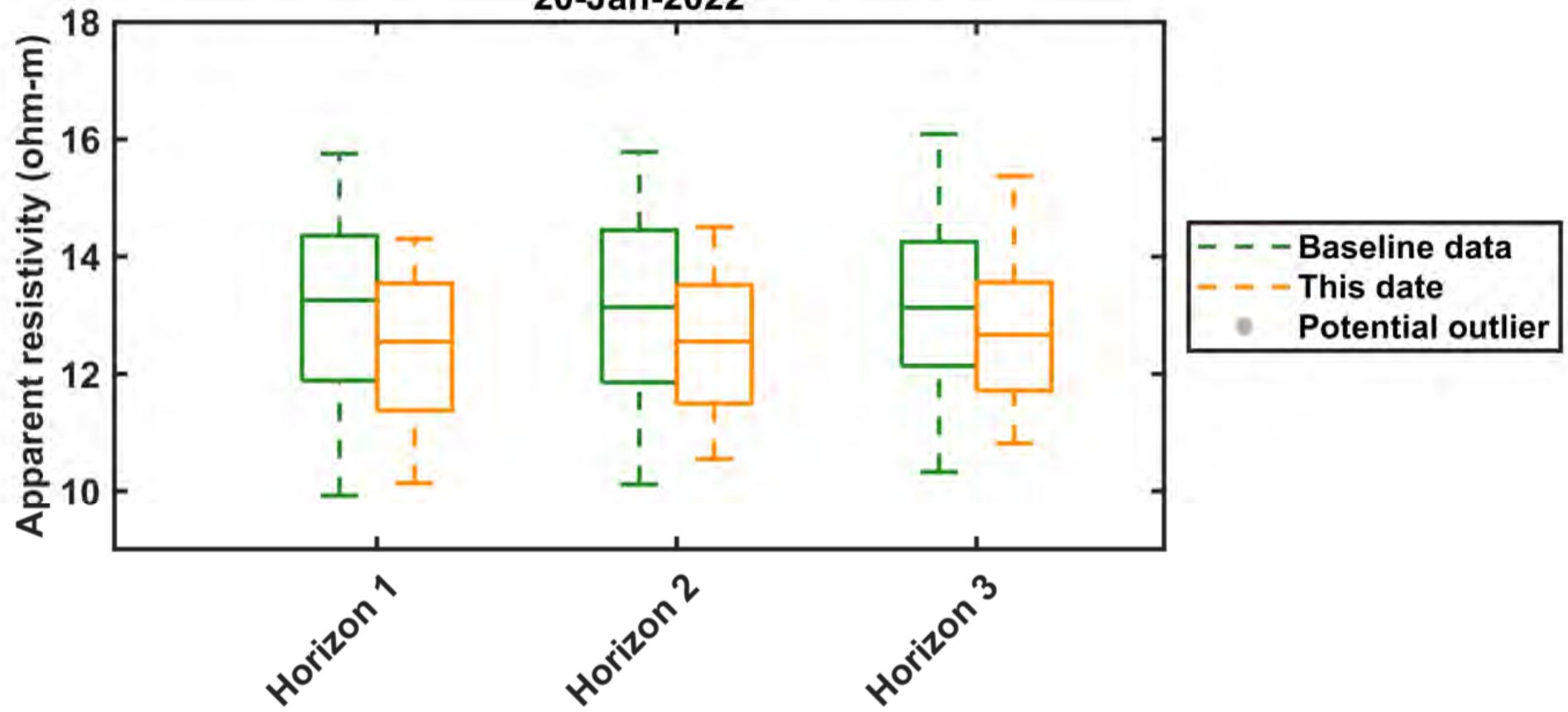
Florence electrical conductivity monitoring
05-Jan-2022



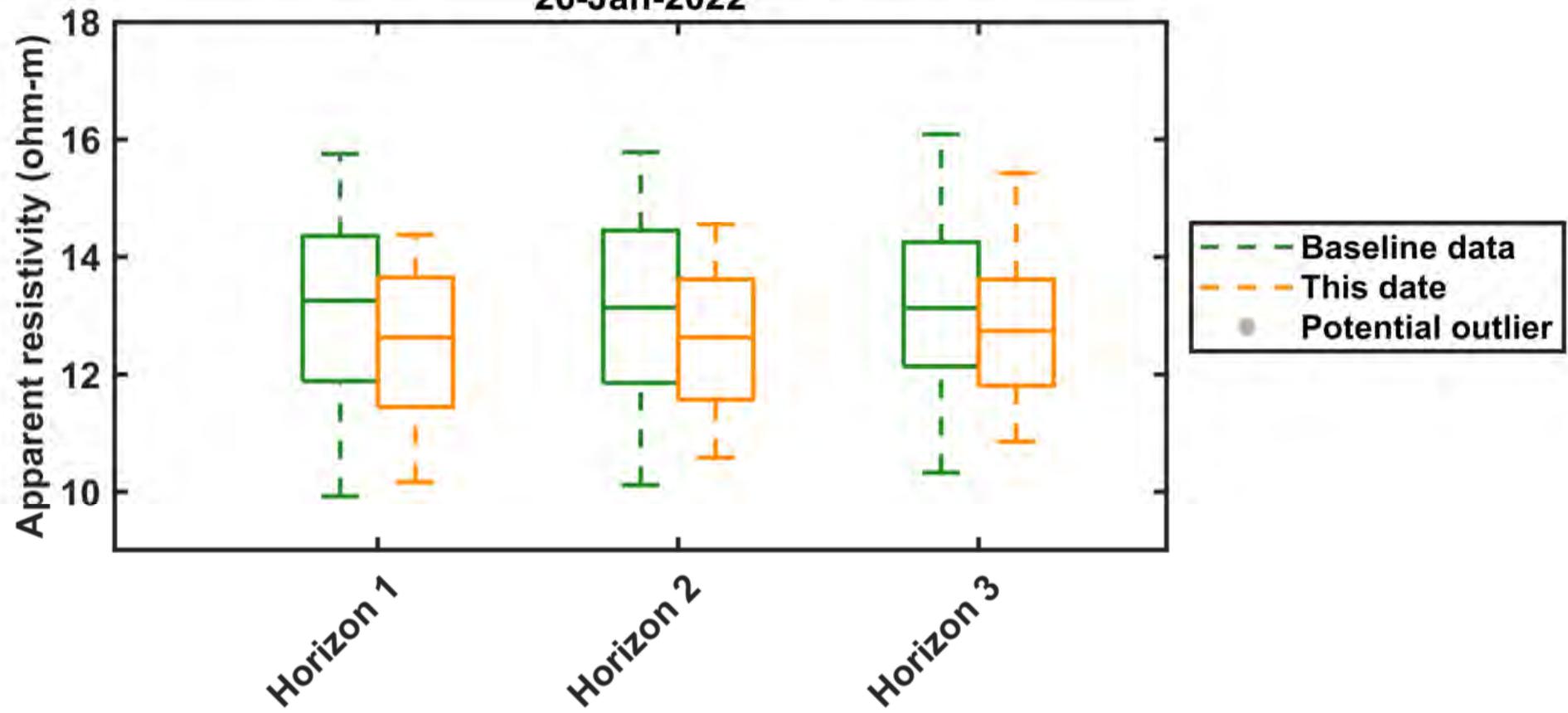
Florence electrical conductivity monitoring
11-Jan-2022



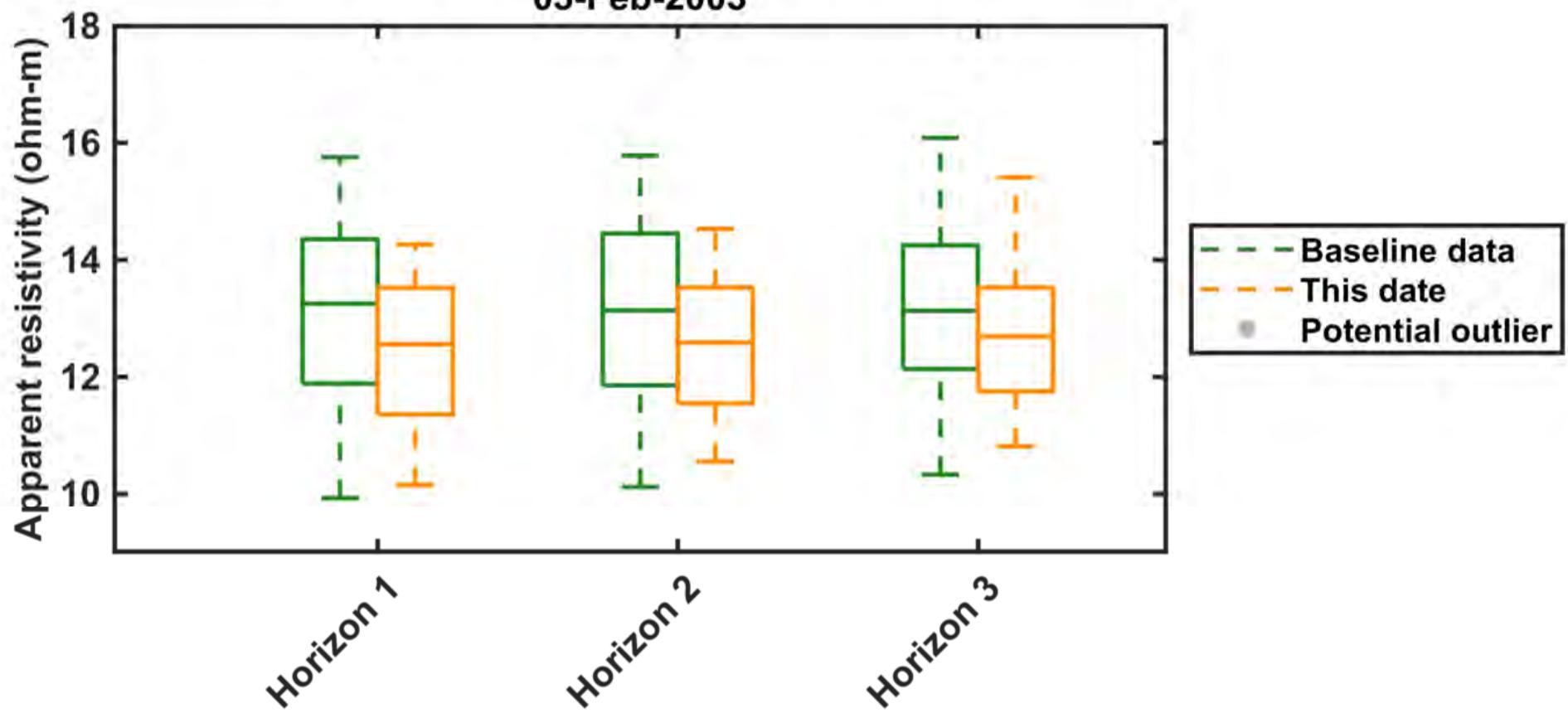
Florence electrical conductivity monitoring
20-Jan-2022



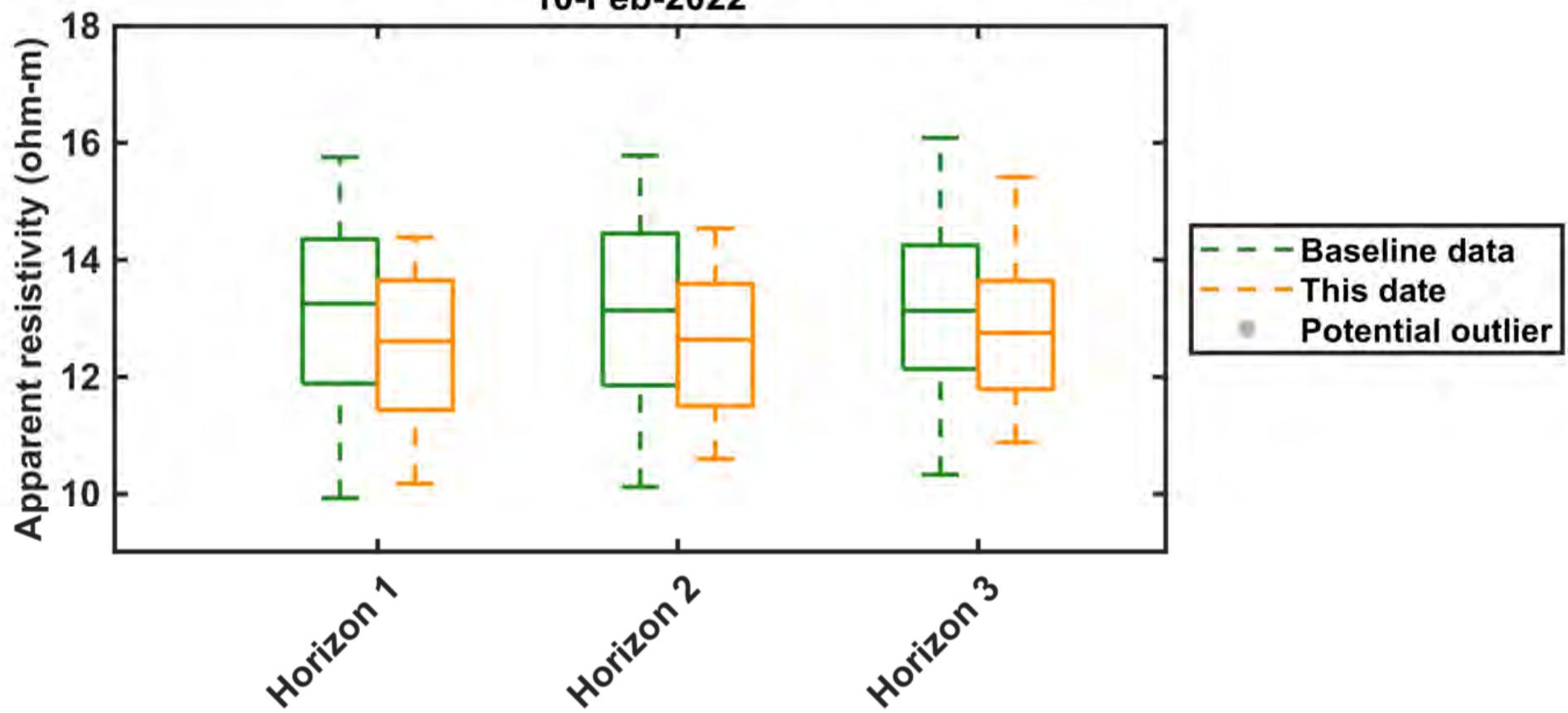
Florence electrical conductivity monitoring
26-Jan-2022



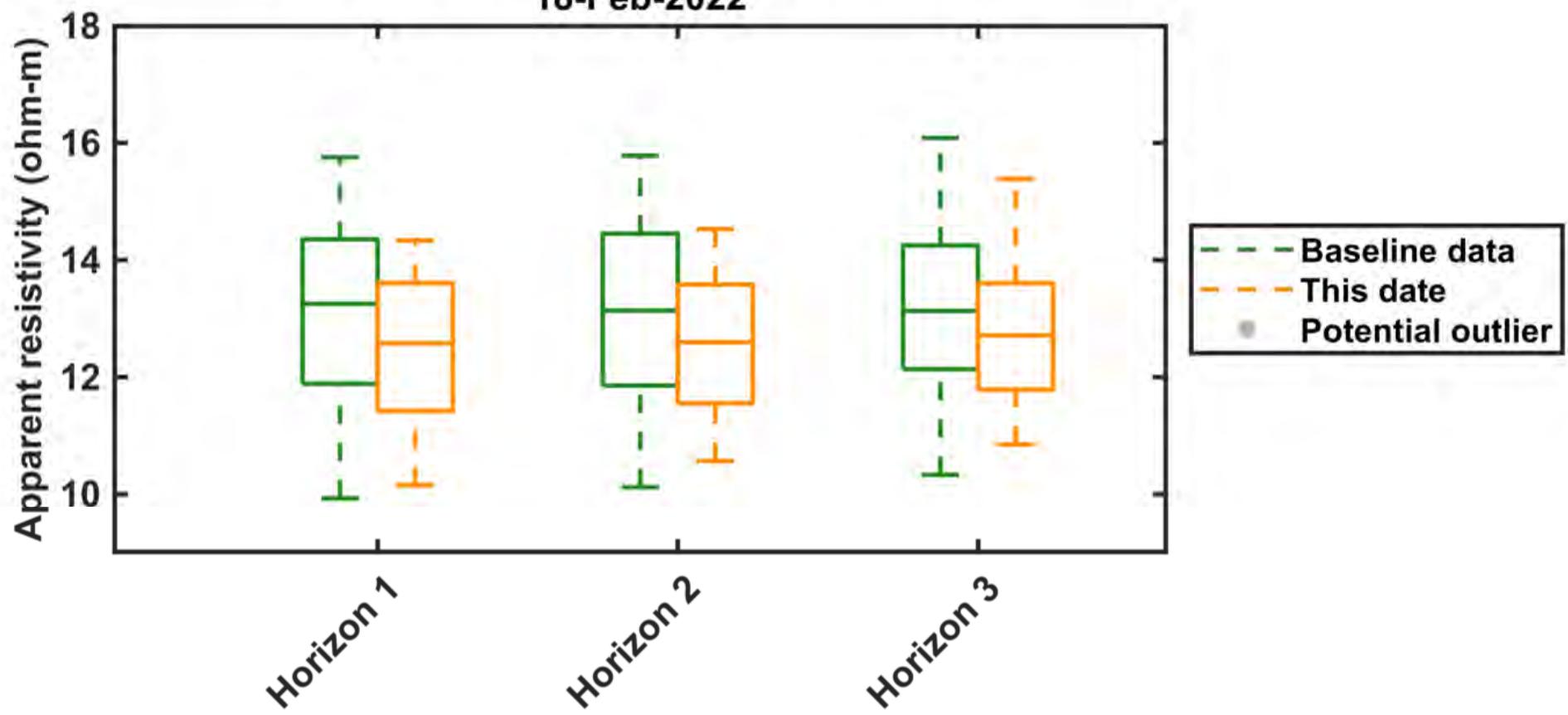
Florence electrical conductivity monitoring
03-Feb-2003



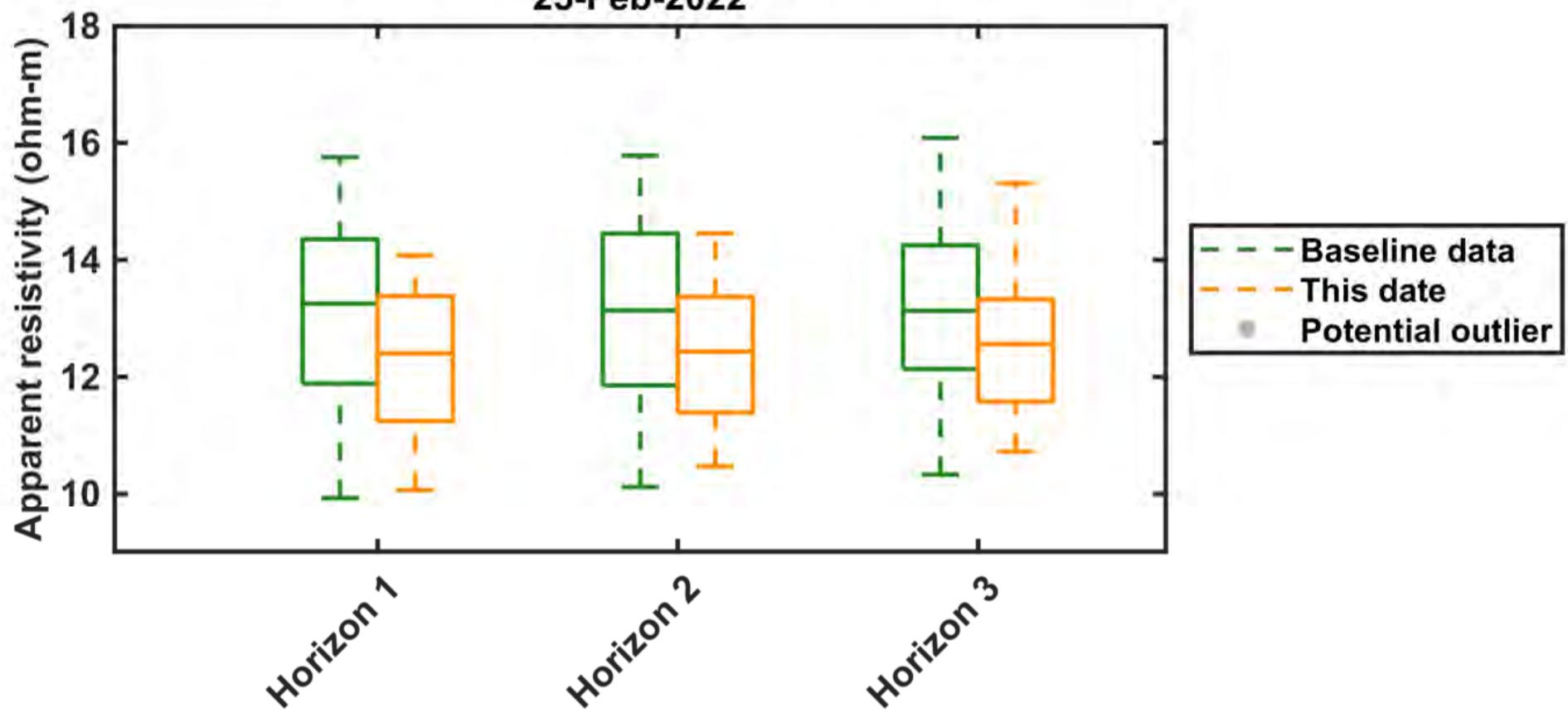
Florence electrical conductivity monitoring
10-Feb-2022



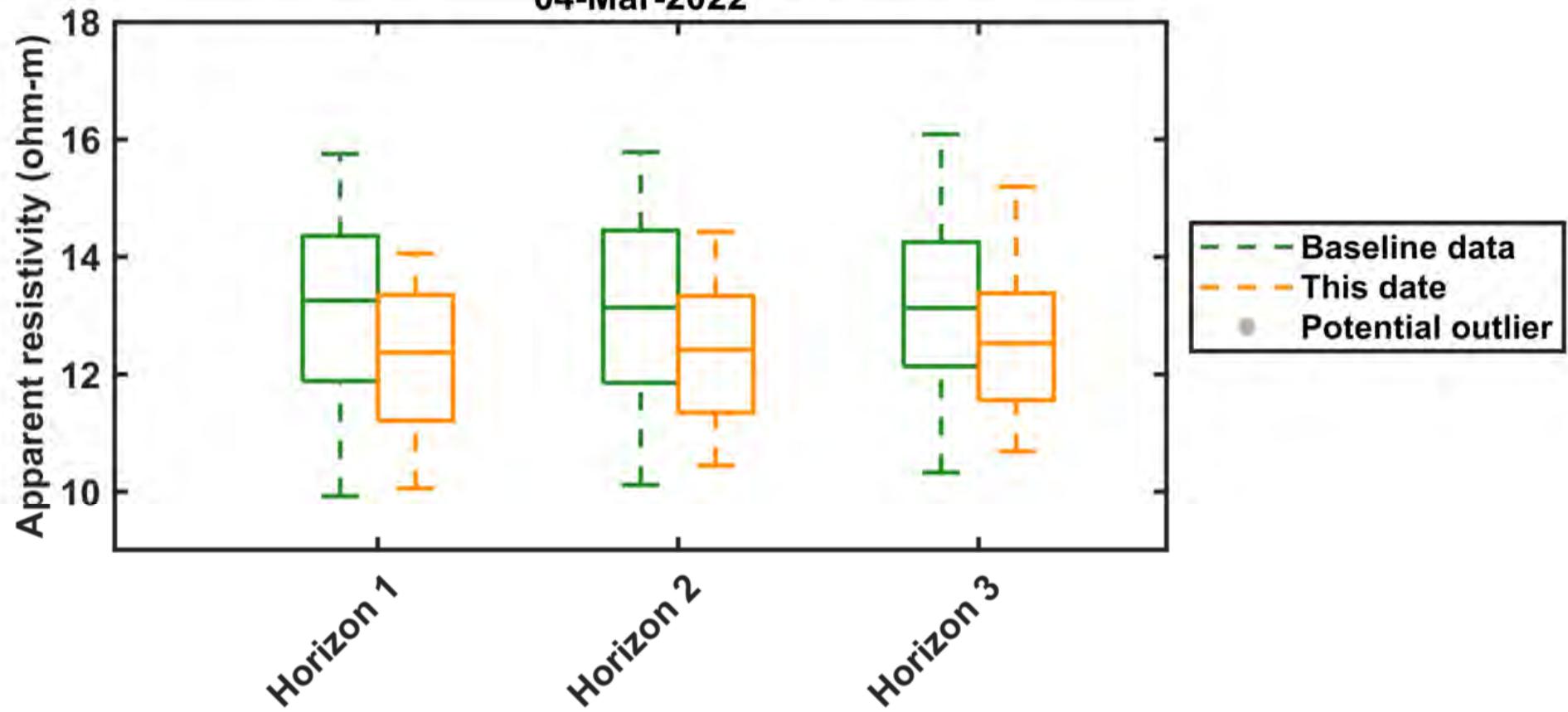
Florence electrical conductivity monitoring
18-Feb-2022



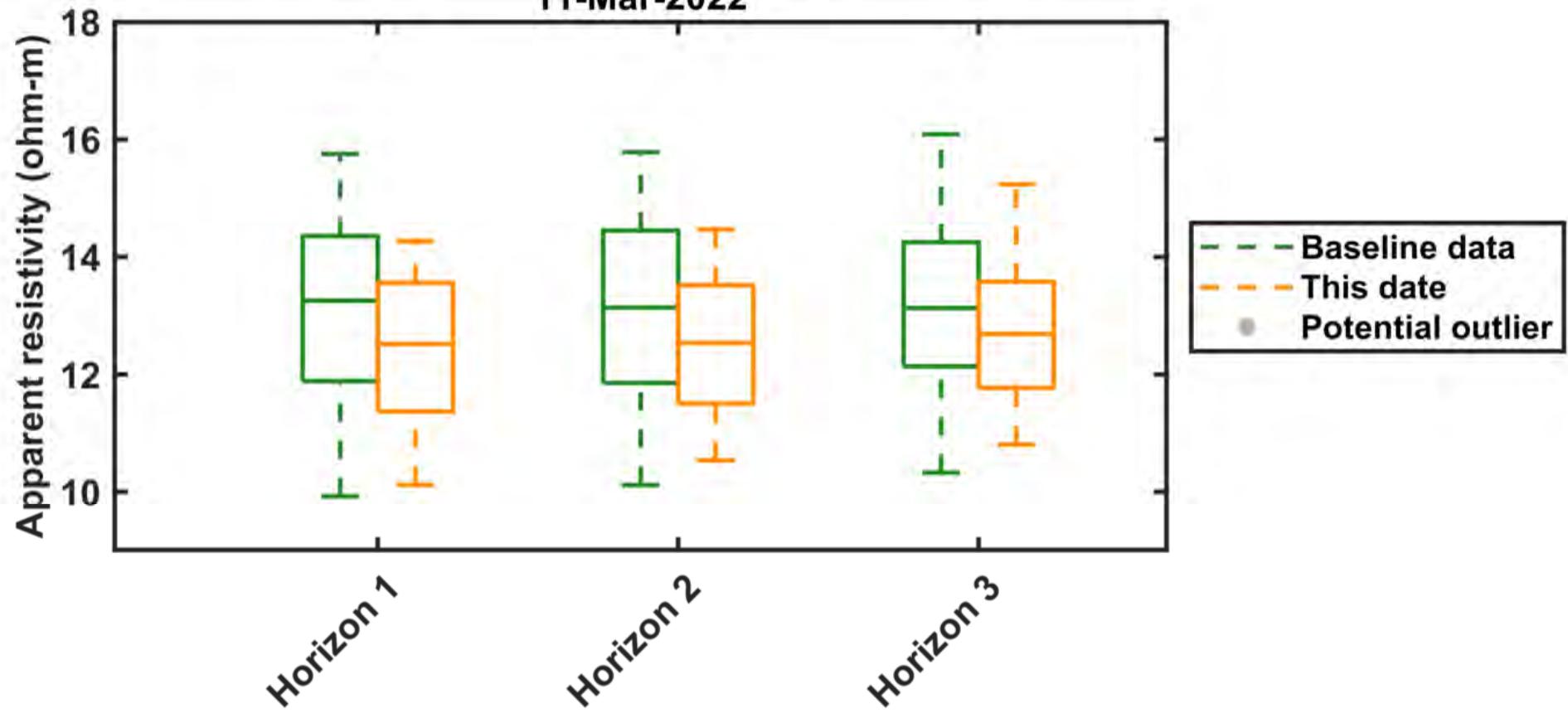
Florence electrical conductivity monitoring
25-Feb-2022



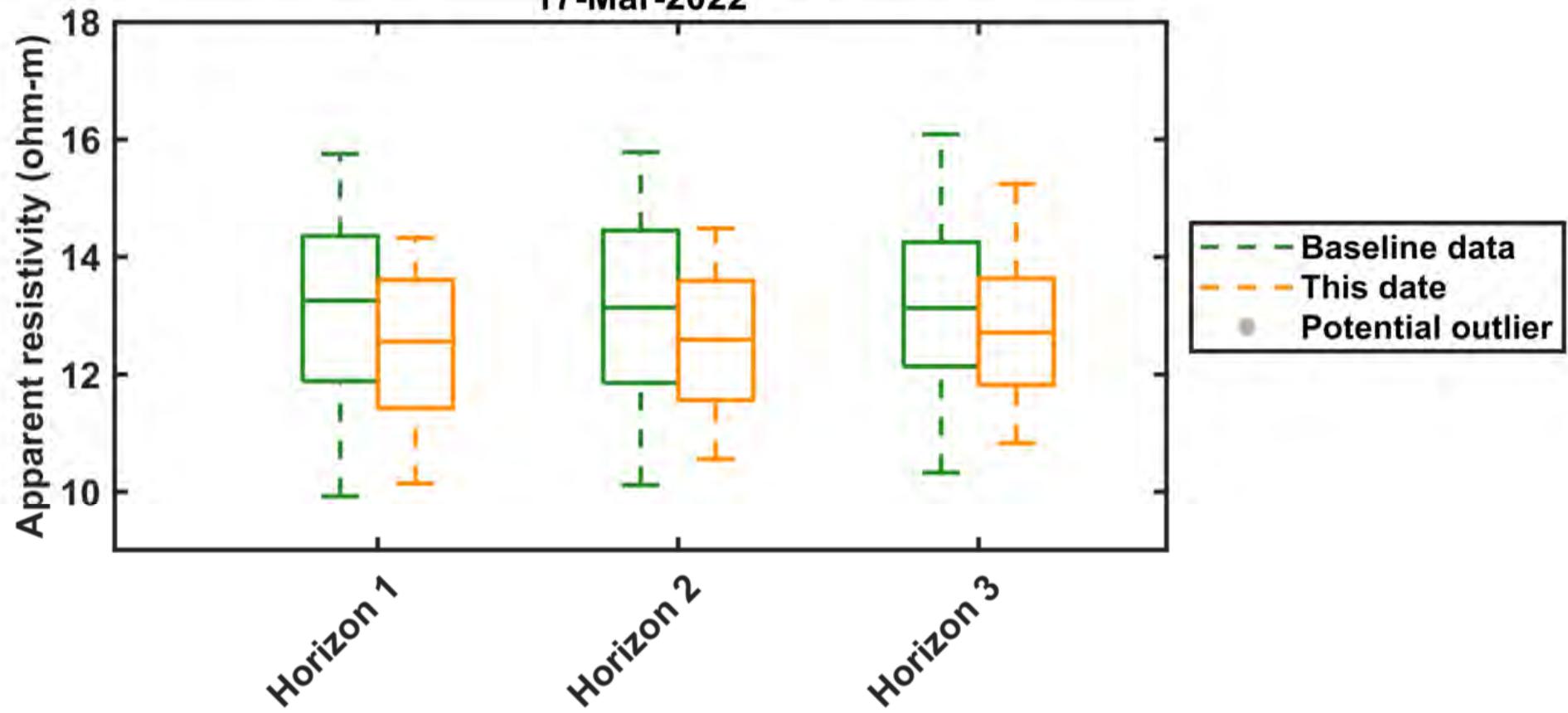
Florence electrical conductivity monitoring
04-Mar-2022



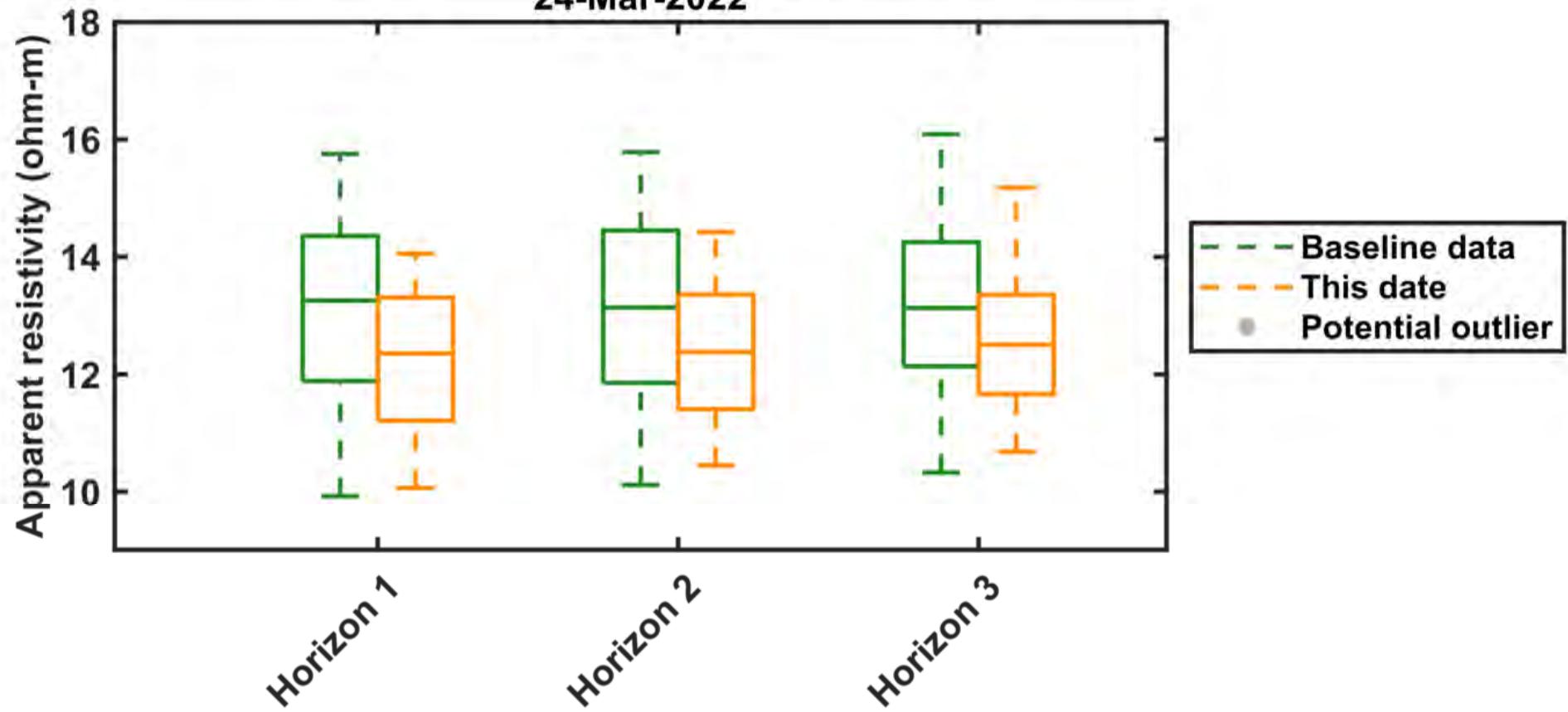
Florence electrical conductivity monitoring
11-Mar-2022



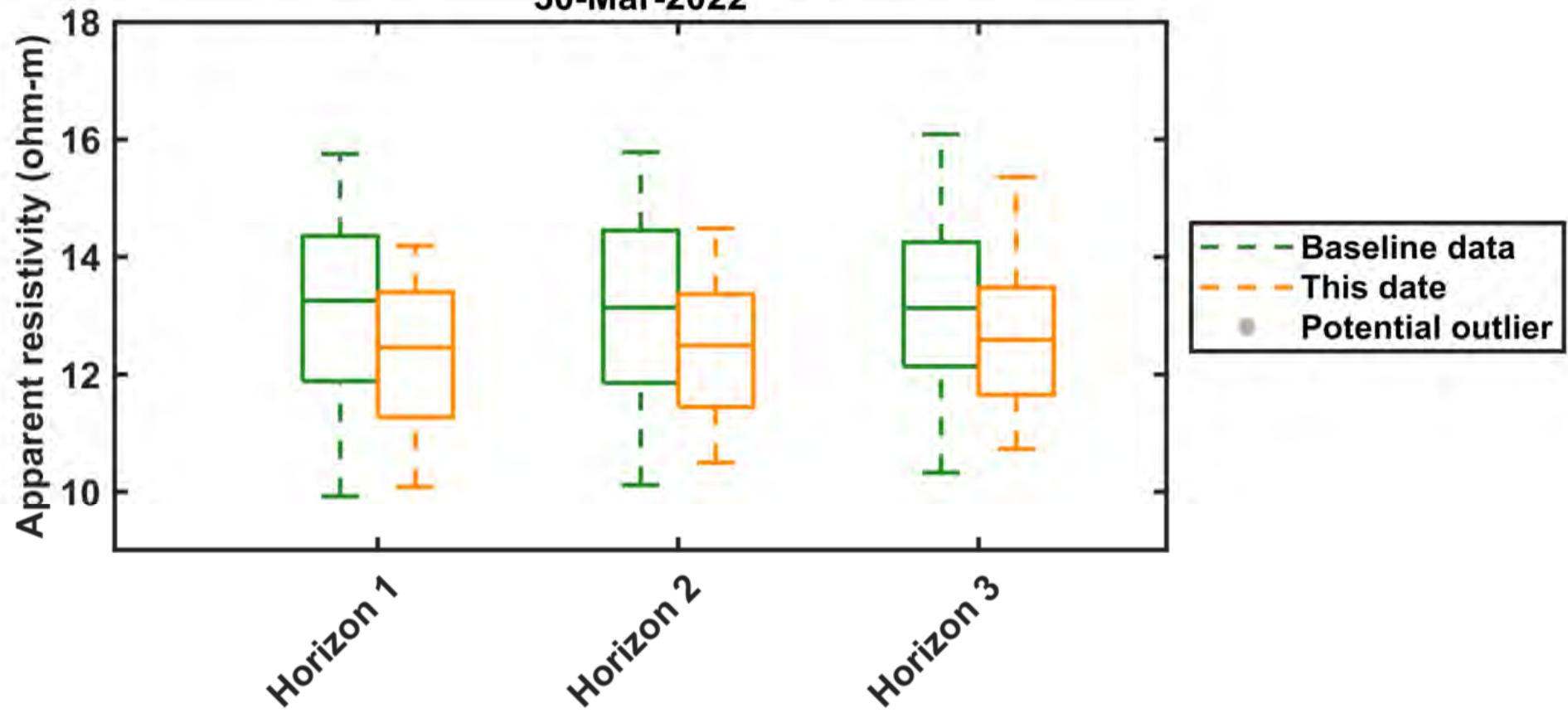
Florence electrical conductivity monitoring
17-Mar-2022



Florence electrical conductivity monitoring
24-Mar-2022



Florence electrical conductivity monitoring
30-Mar-2022

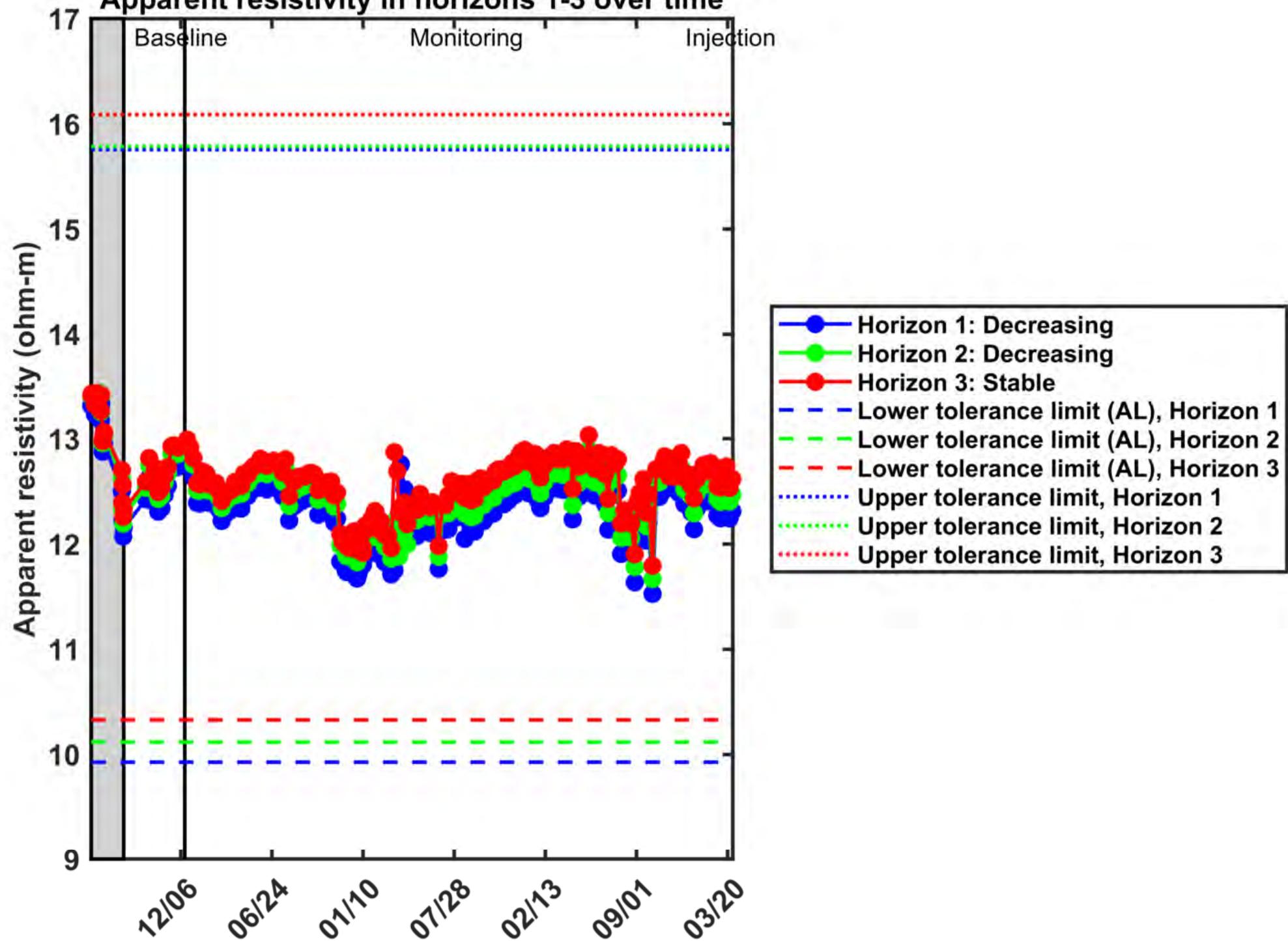


ATTACHMENT B

Summary Plot of Bulk Electrical Conductivity

Florence ambient electrical conductivity monitoring

Apparent resistivity in horizons 1-3 over time



ATTACHMENT 6

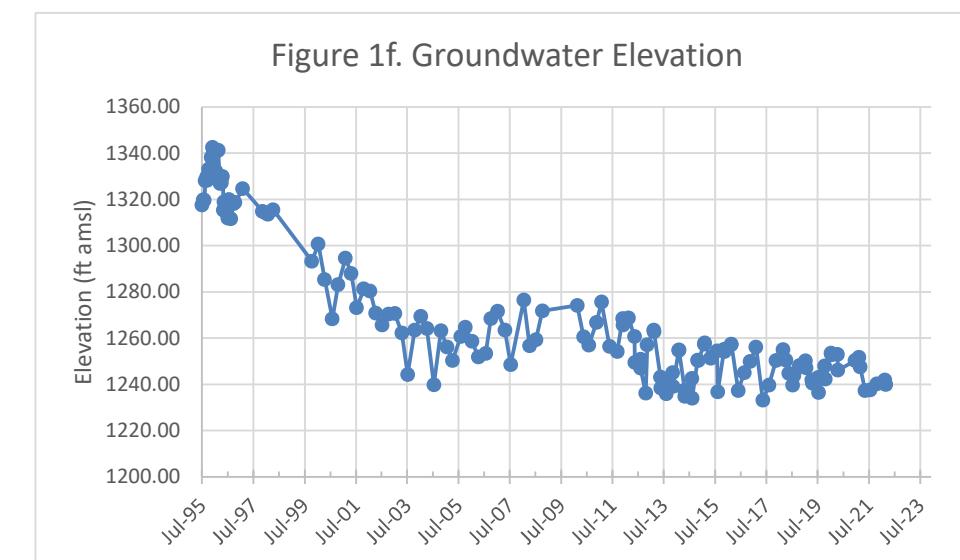
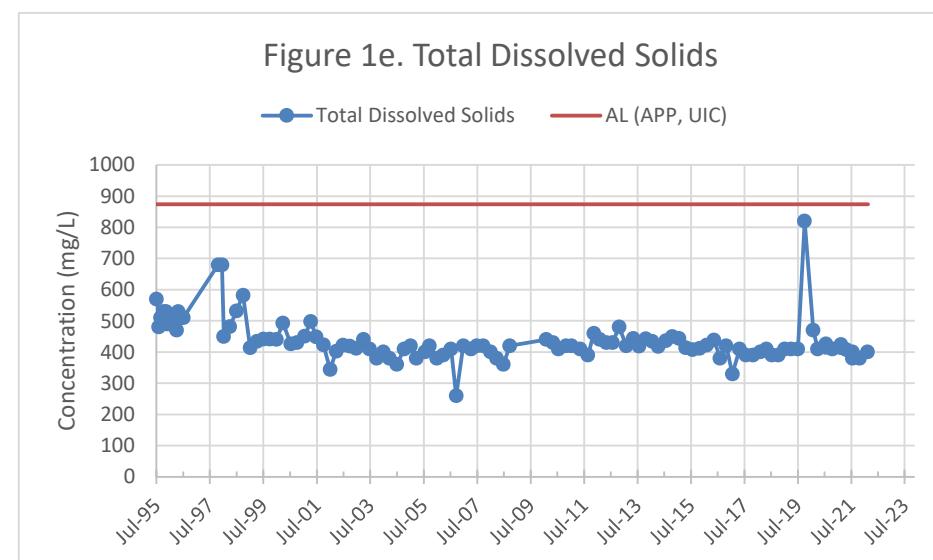
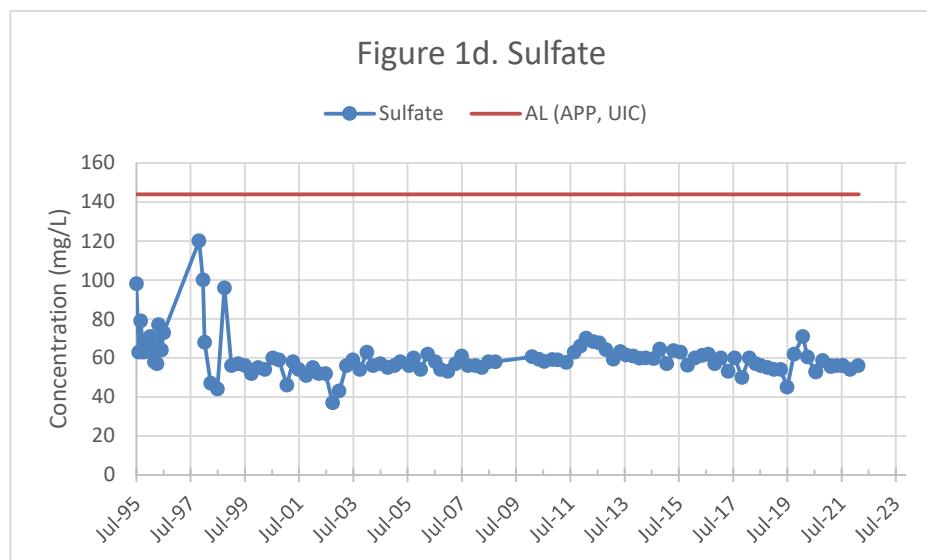
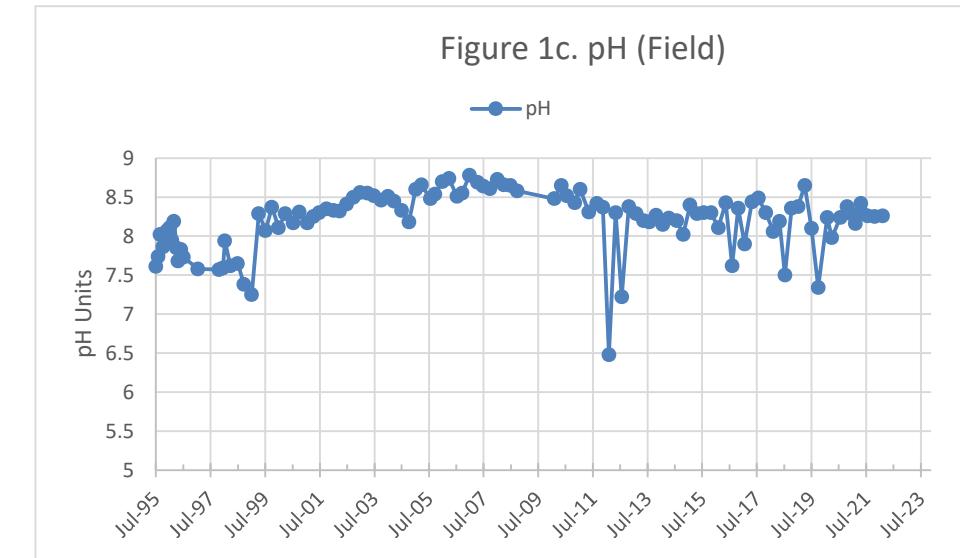
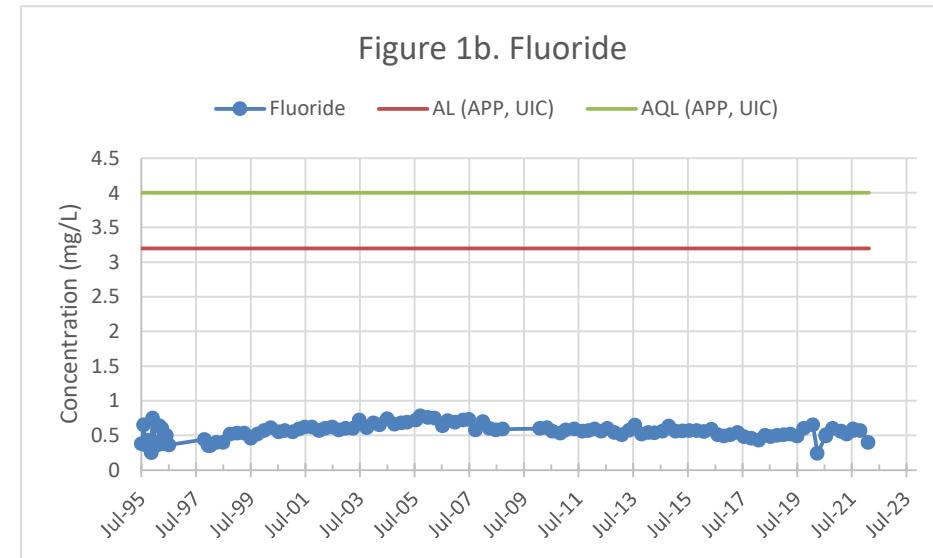
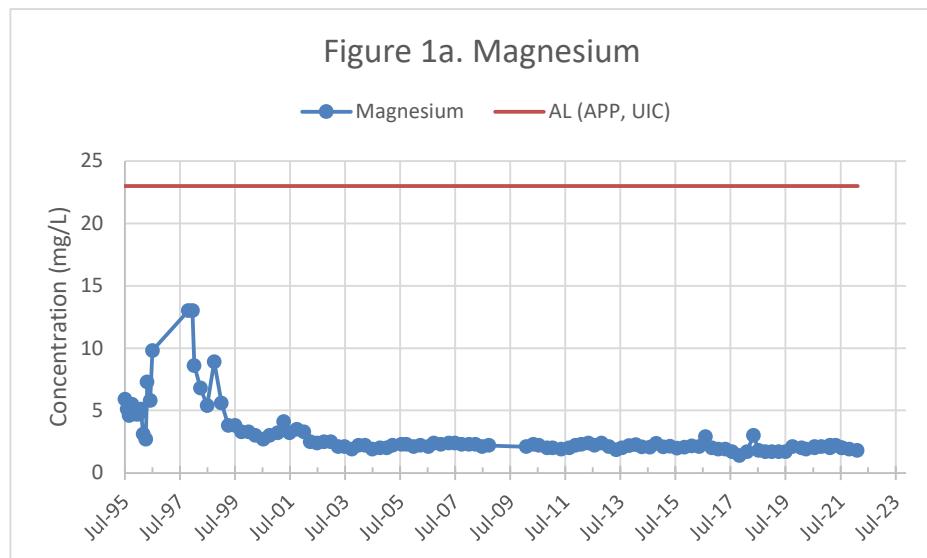
Table and Graphs of Monitor Well Water Levels and Analytical Results

- 6A. Quarterly Concentration Graphs**
- 6B. Well Details and Water Level Elevations**
- 6C. Groundwater Monitoring Summary**

ATTACHMENT 6A

Quarterly Concentration Graphs

M14-GL QUARTERLY CONCENTRATION GRAPHS



Notes:

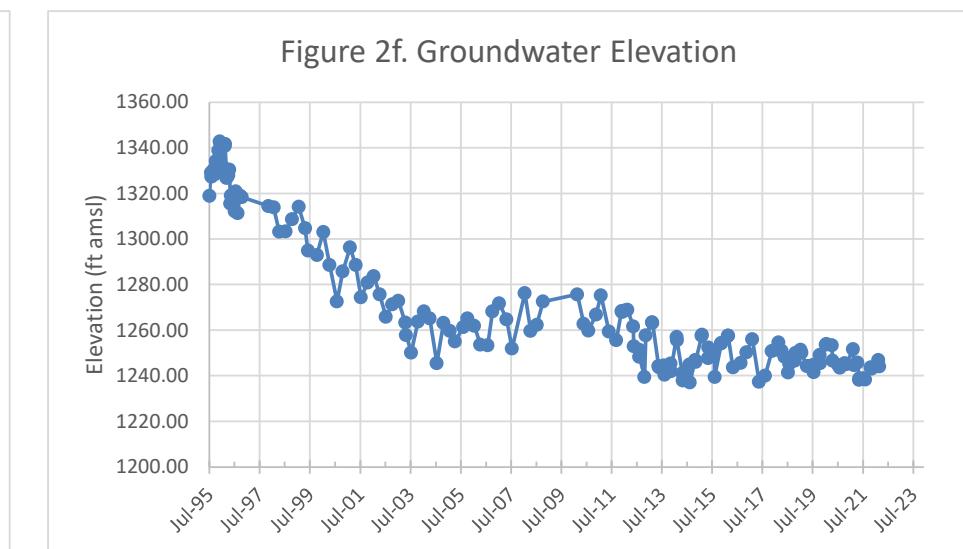
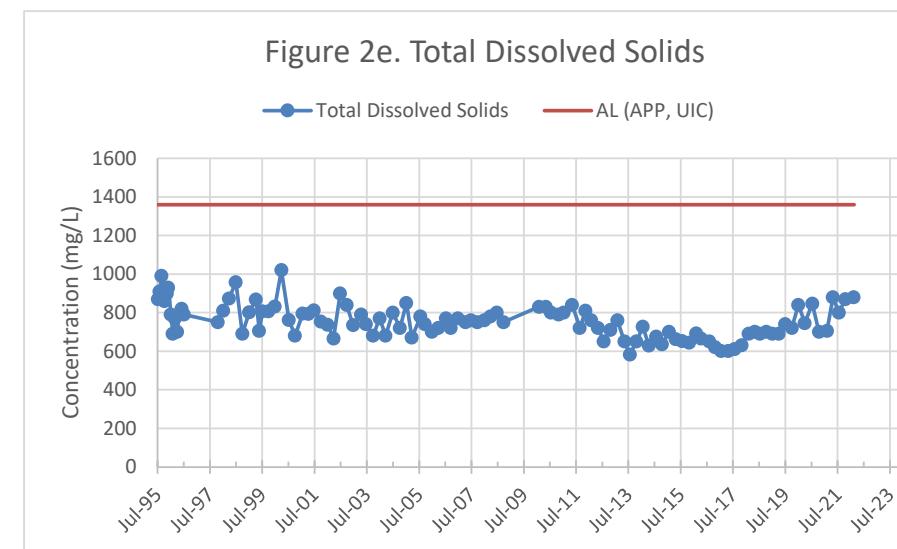
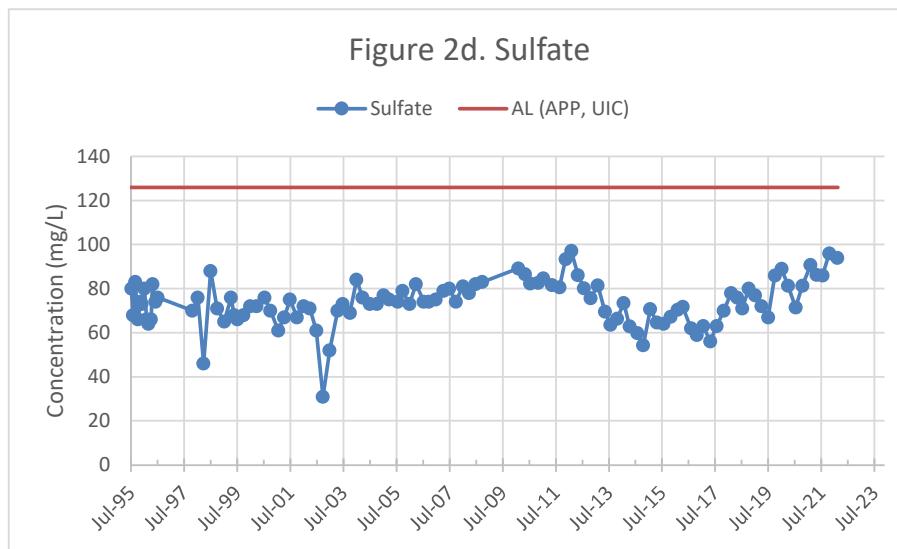
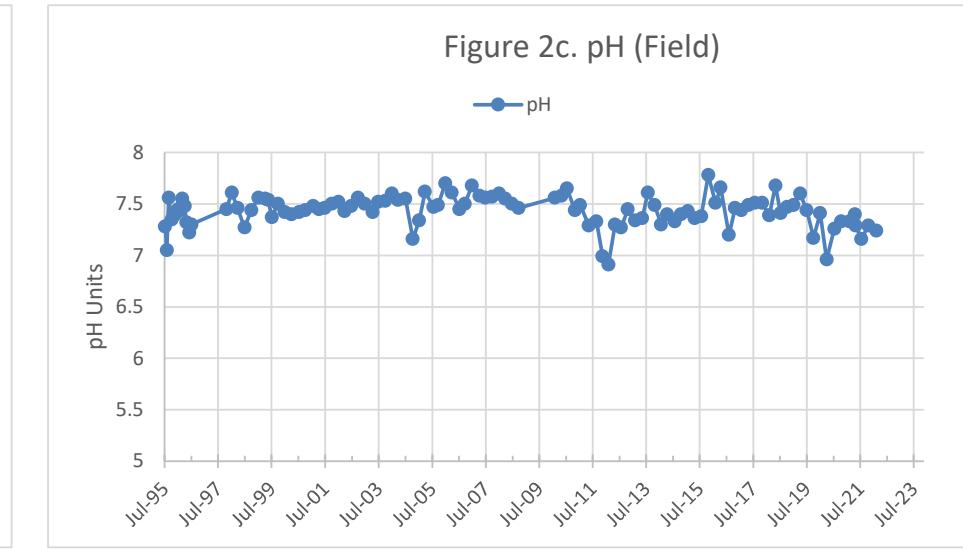
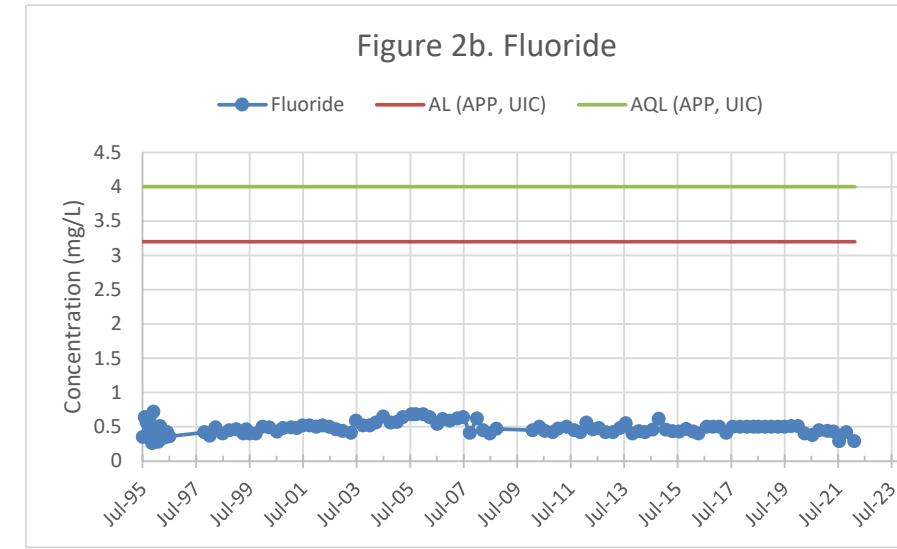
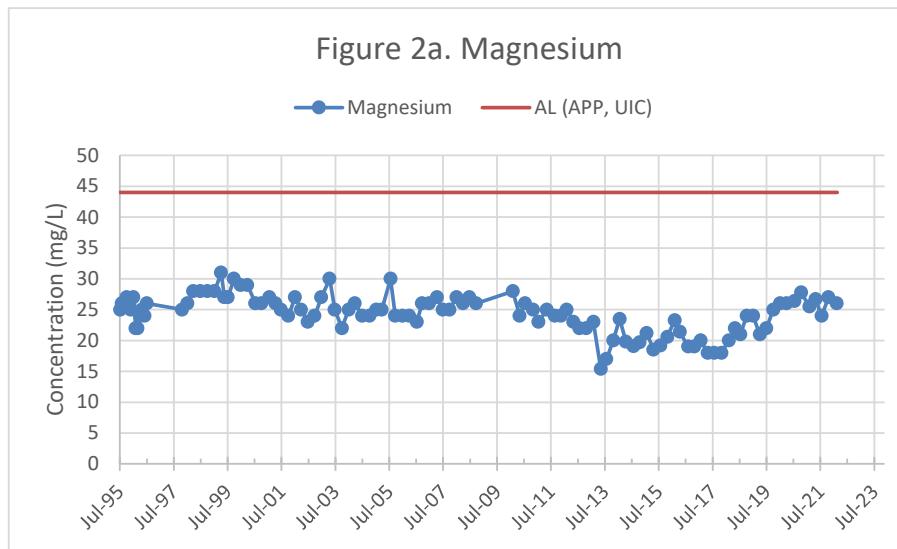
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M15-GU QUARTERLY CONCENTRATION GRAPHS



Notes:

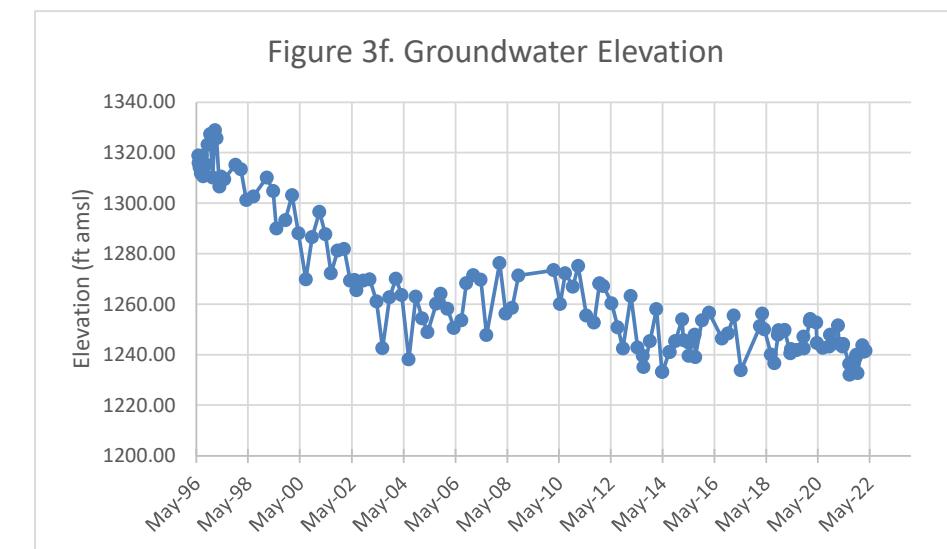
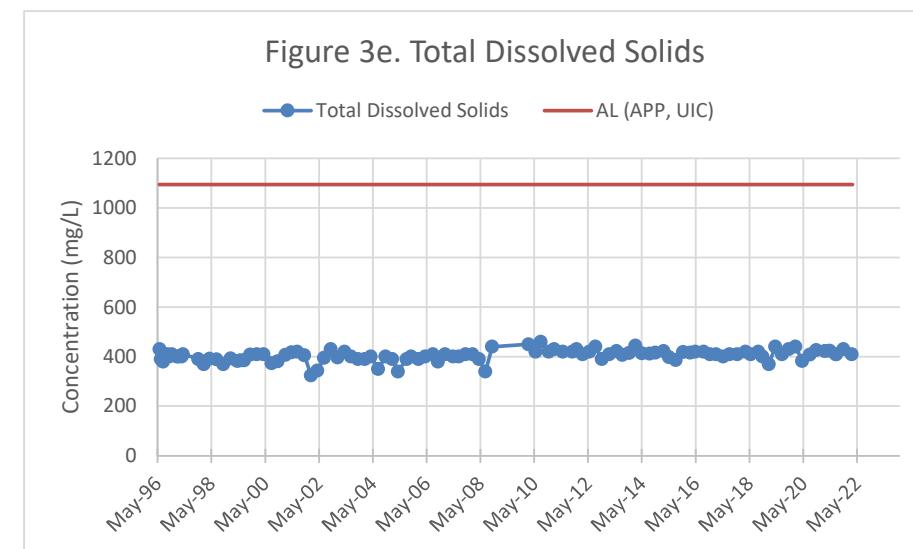
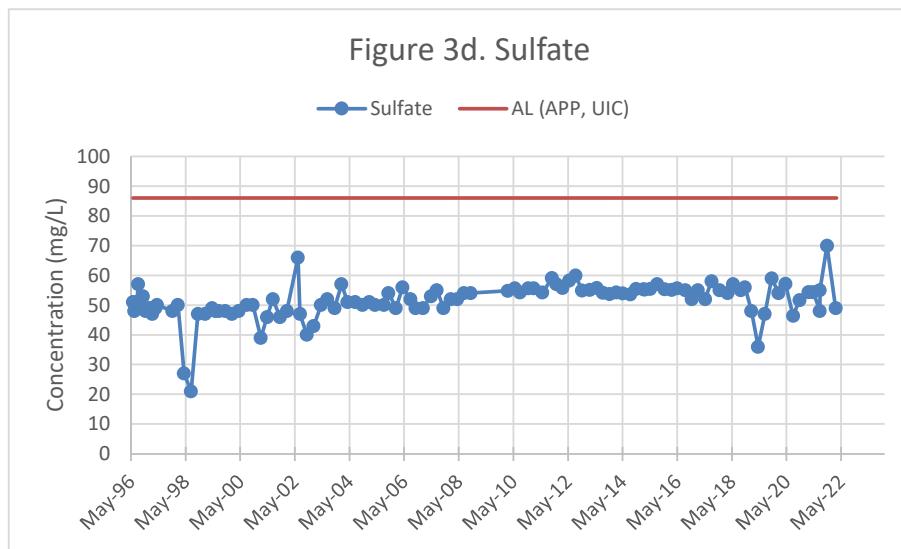
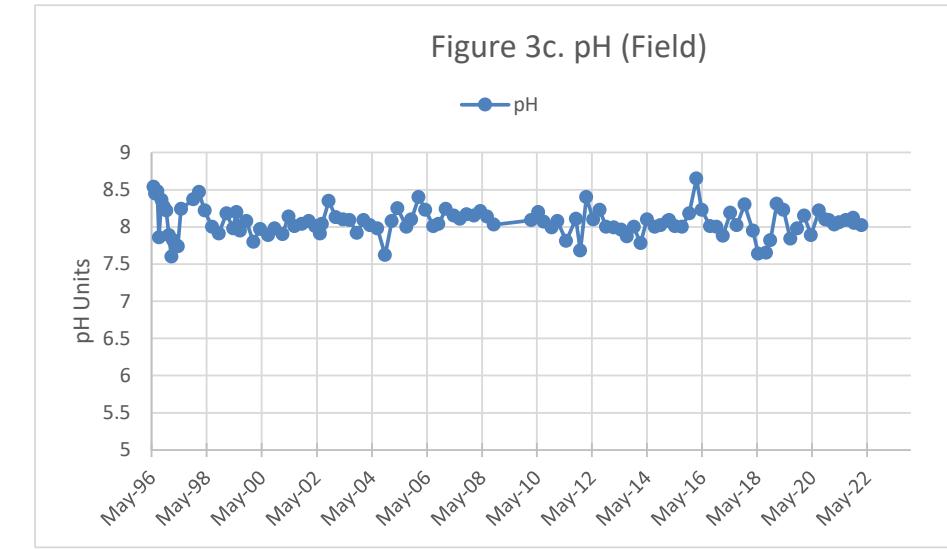
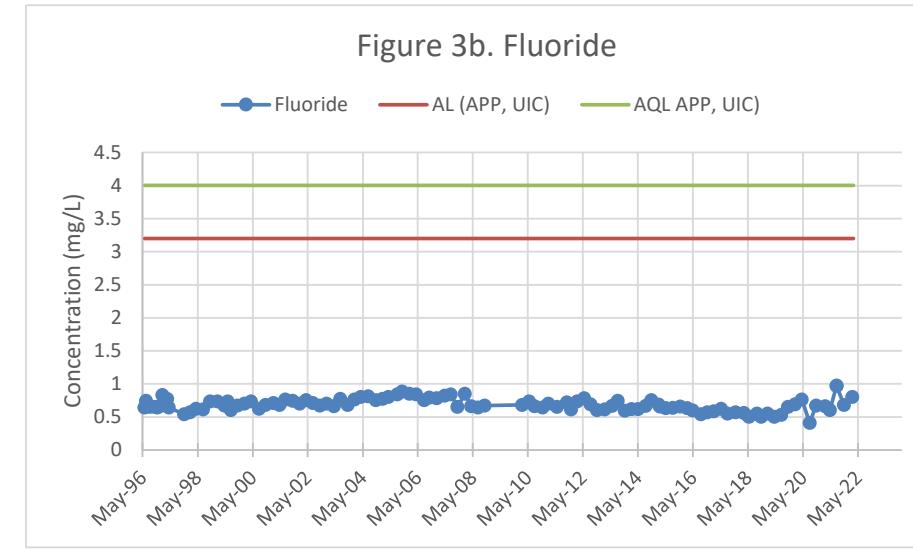
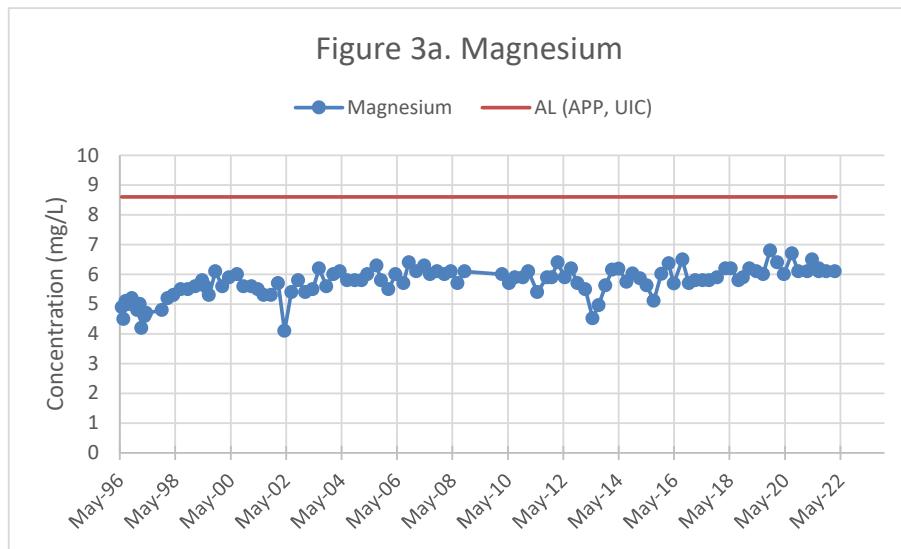
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M22-O QUARTERLY CONCENTRATION GRAPHS



Notes:

Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

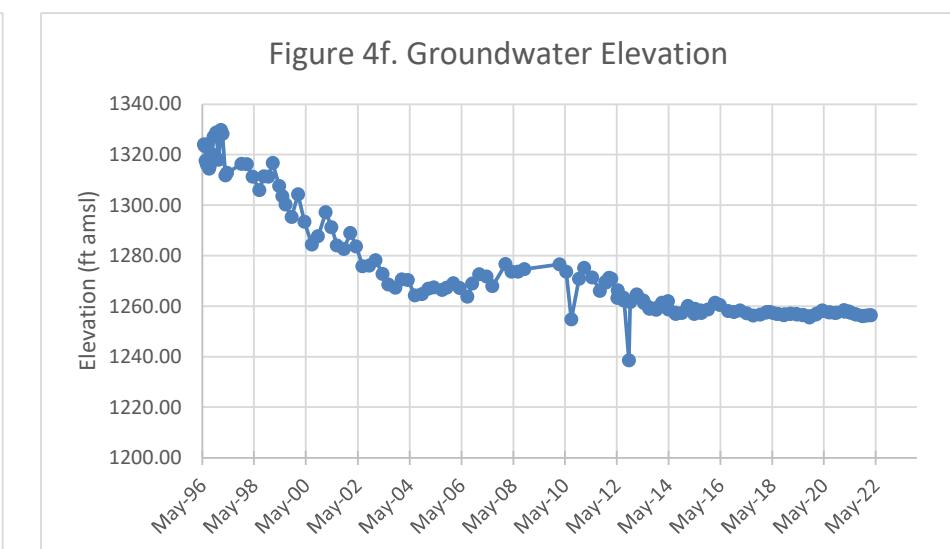
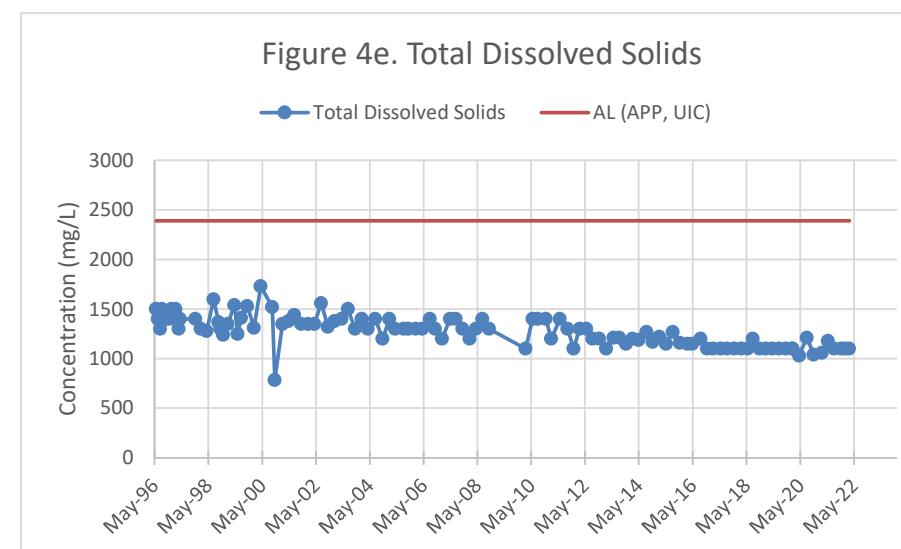
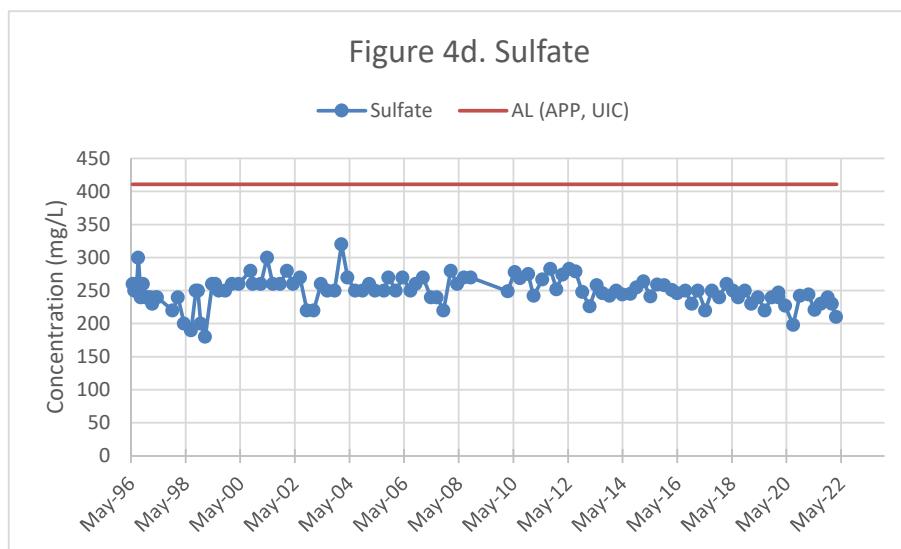
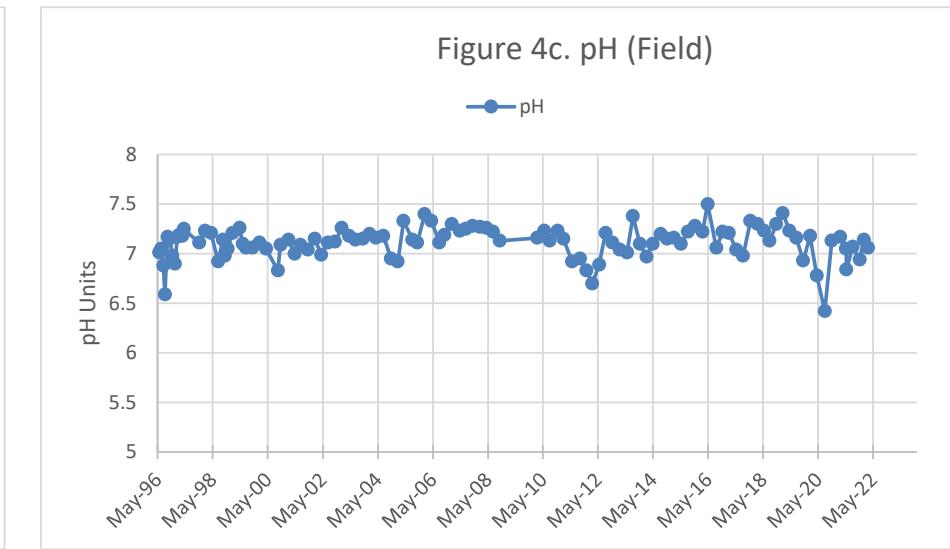
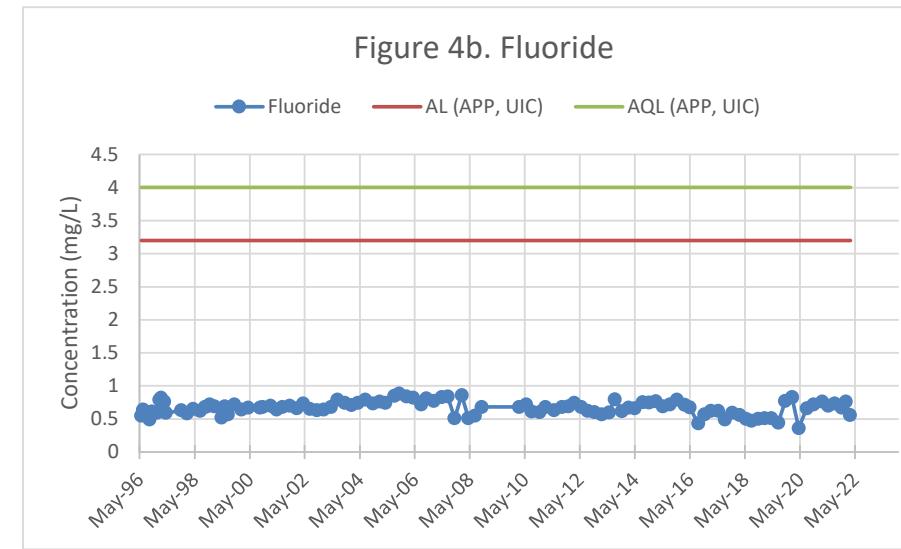
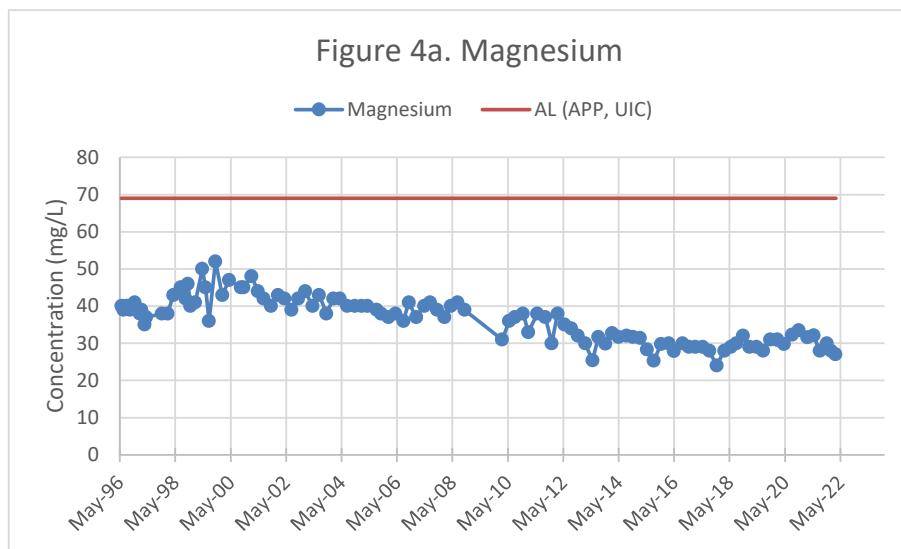
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M23-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

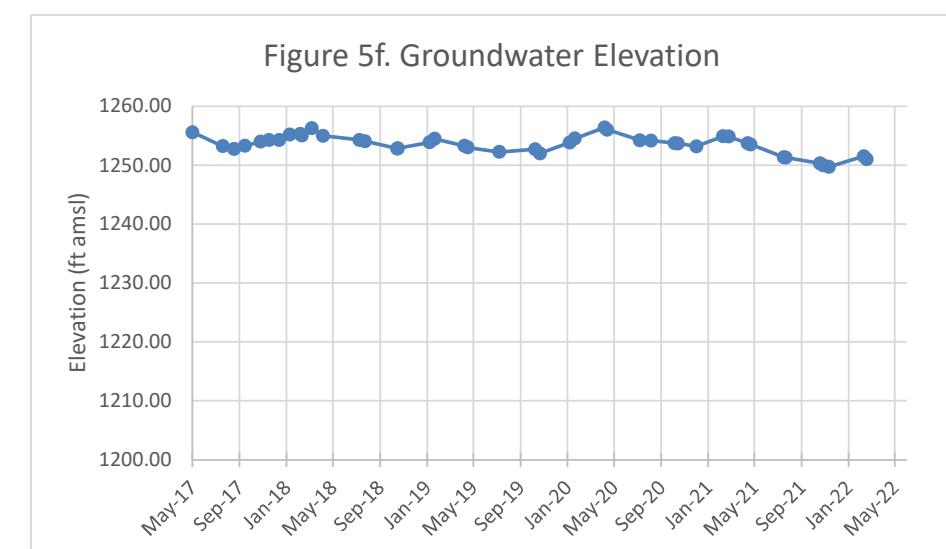
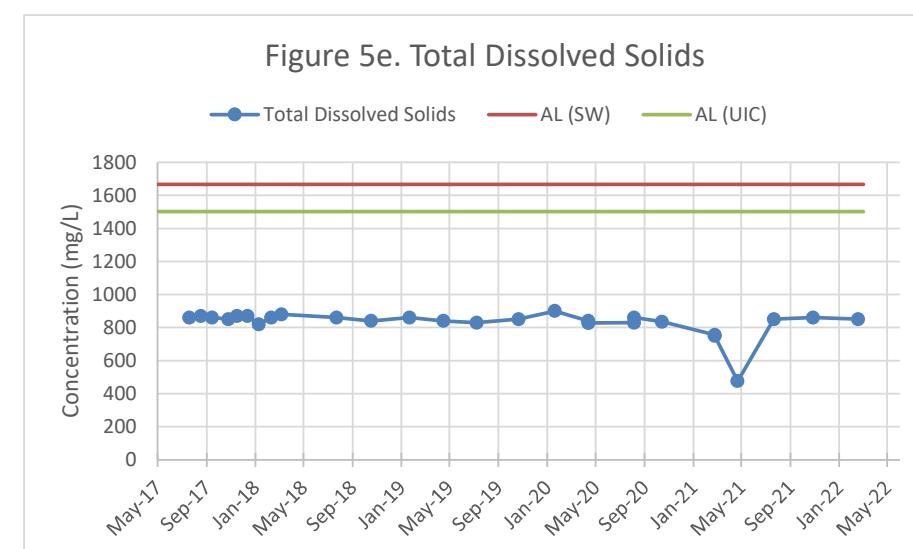
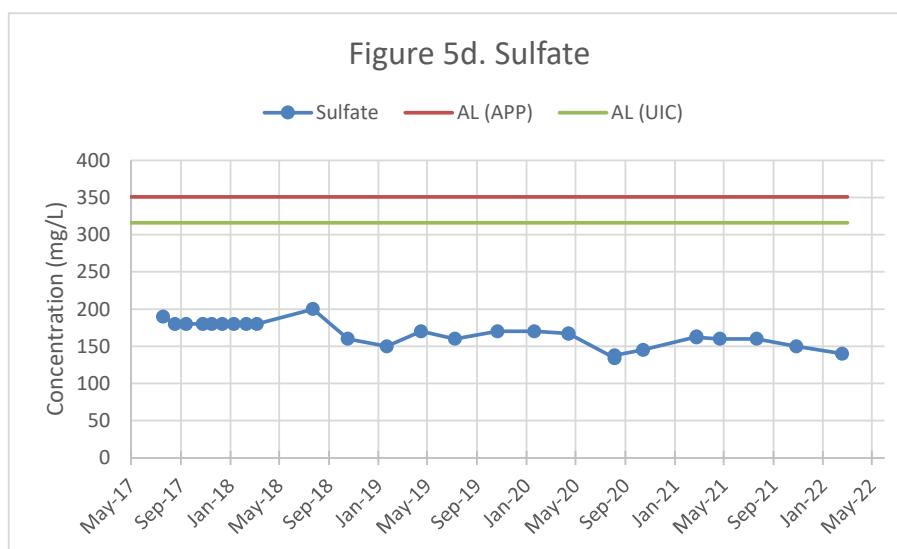
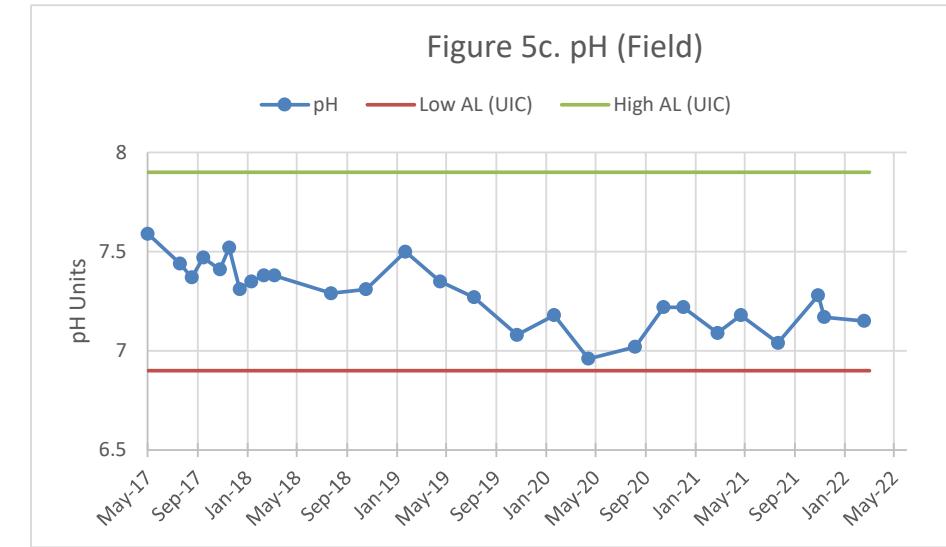
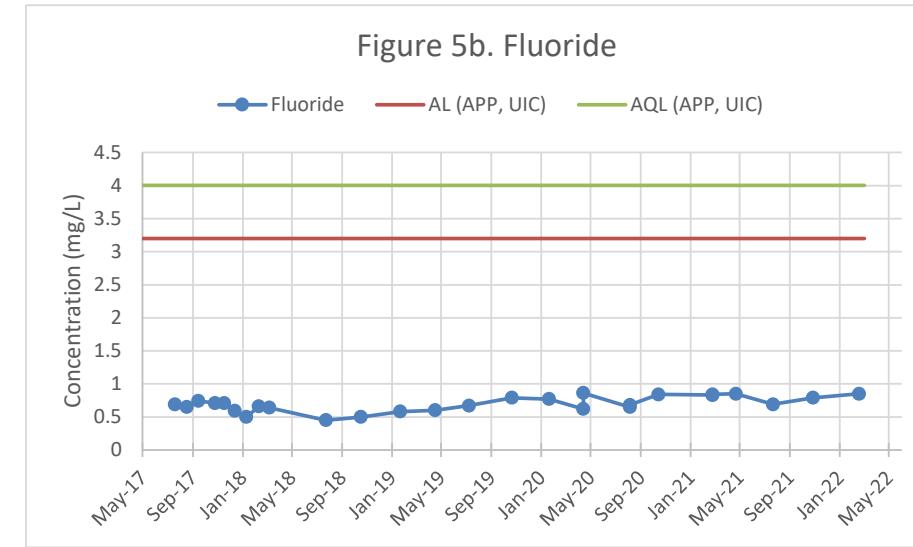
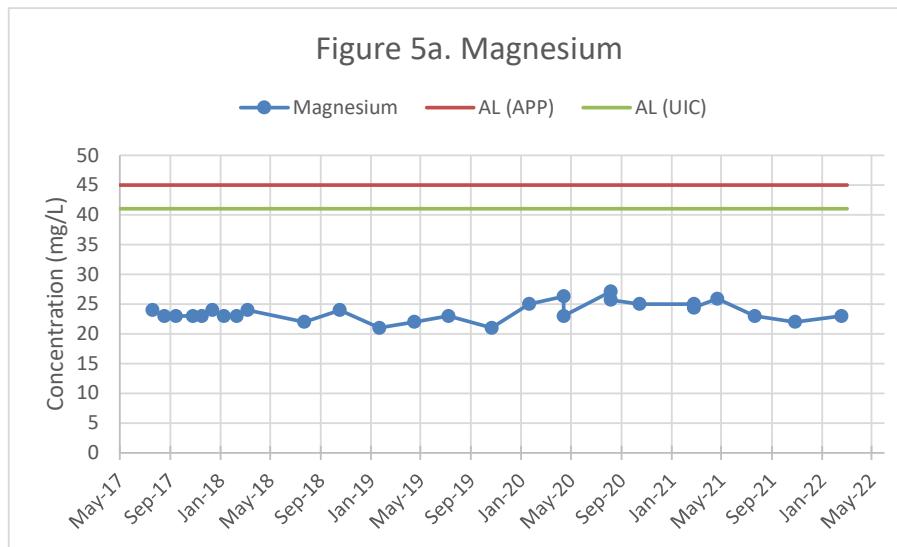
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M52-UBF QUARTERLY CONCENTRATION GRAPHS



Notes:

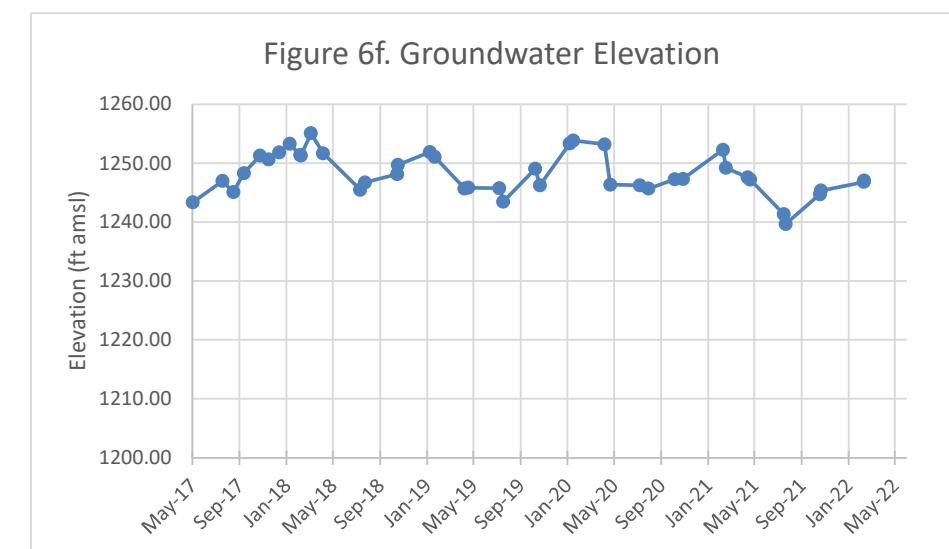
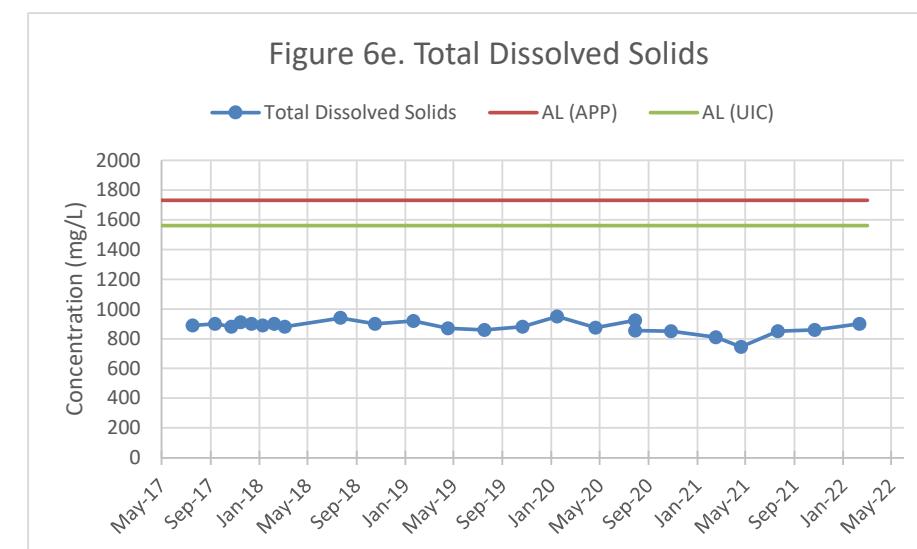
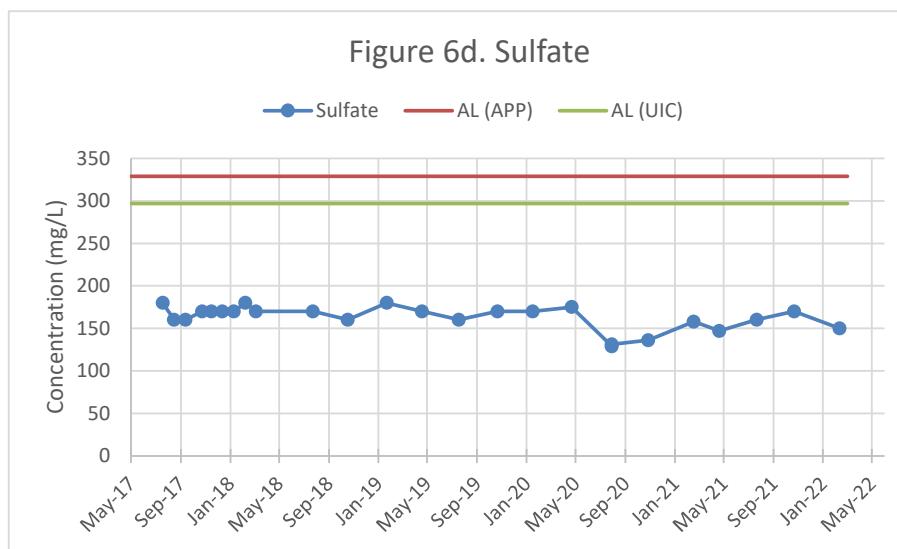
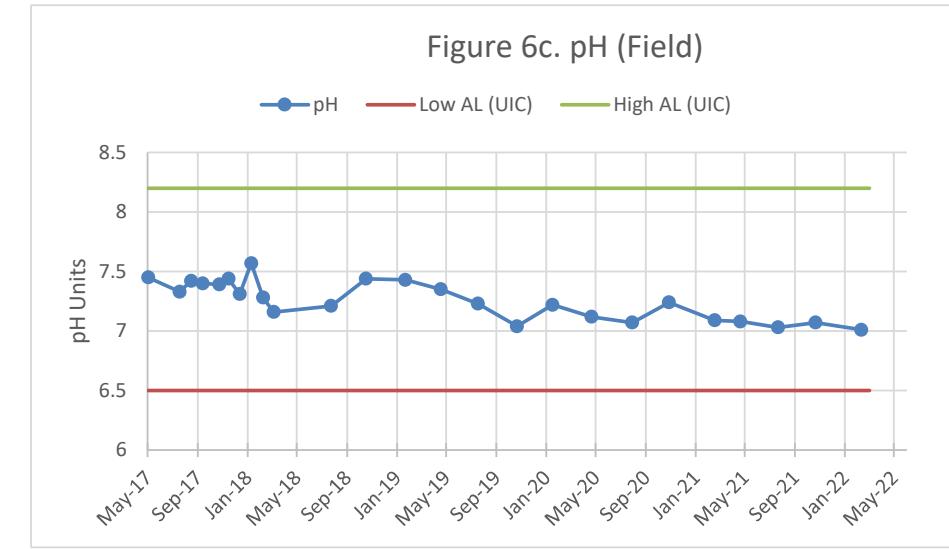
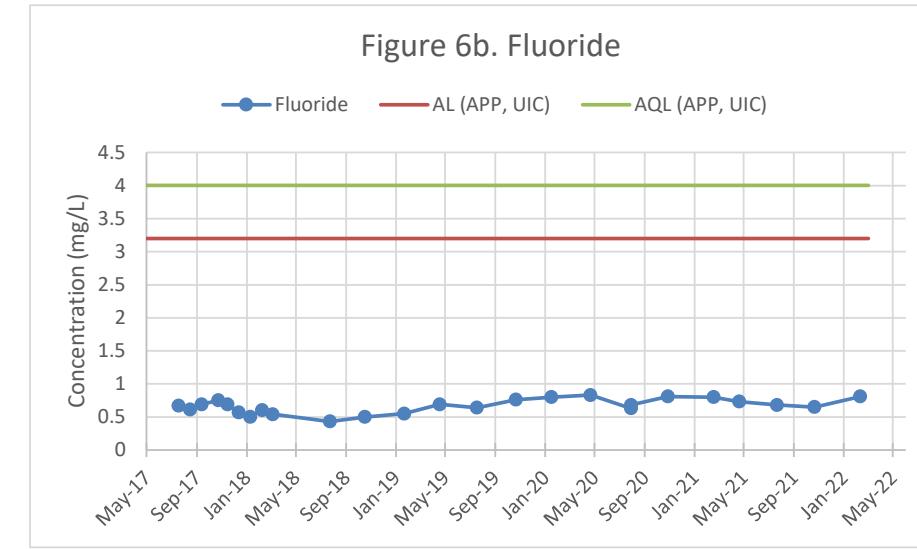
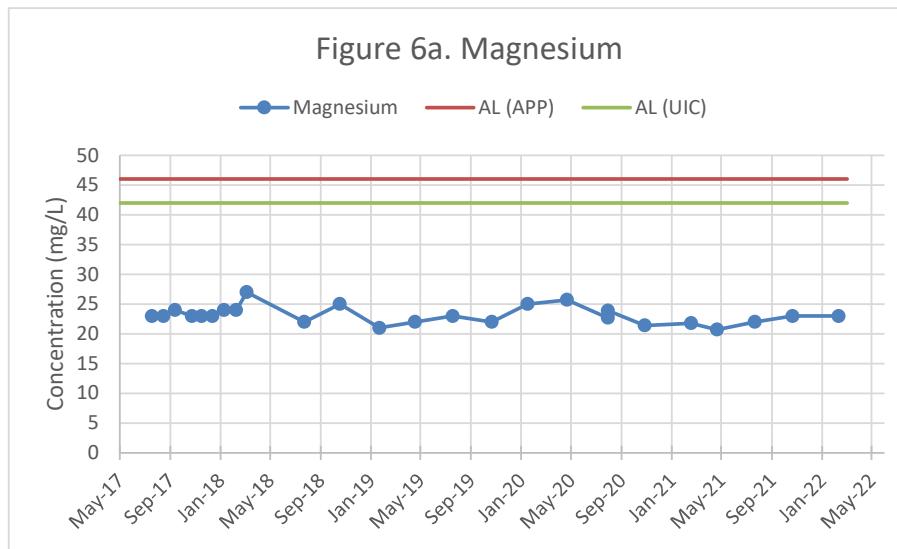
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M54-LBF QUARTERLY CONCENTRATION GRAPHS



Notes:

Historical outliers removed from graphs for visual representation, but are maintained in the dataset.

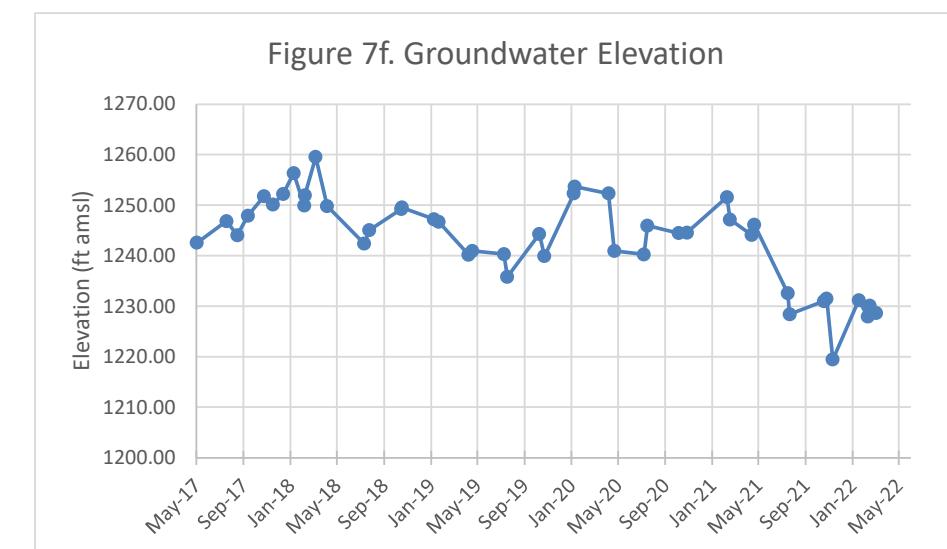
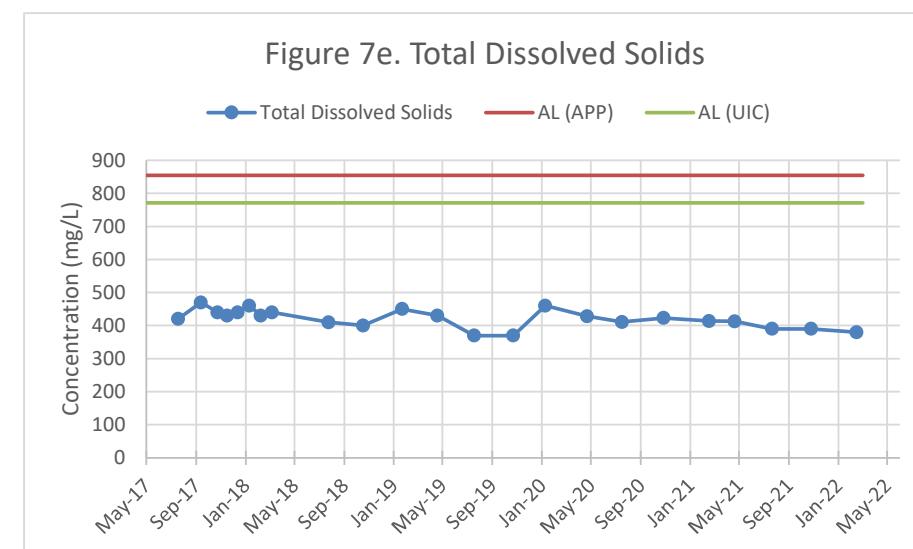
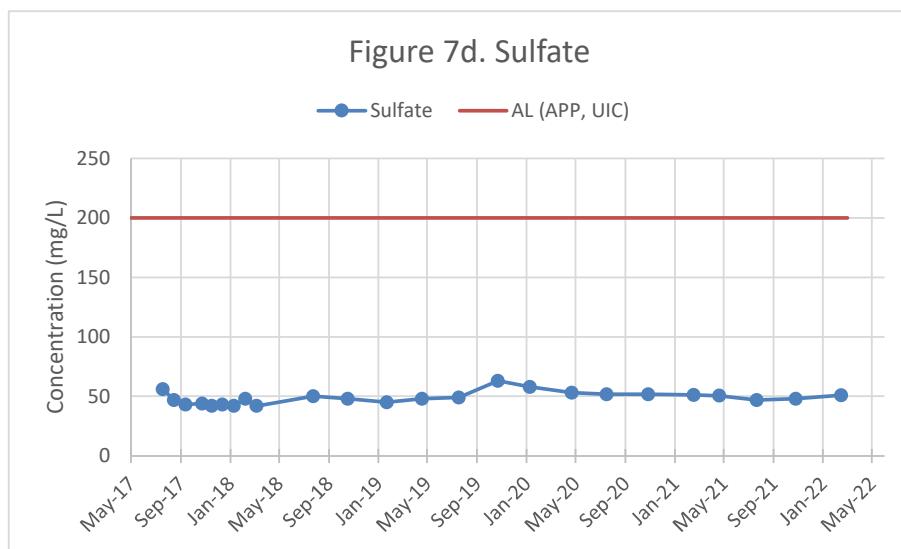
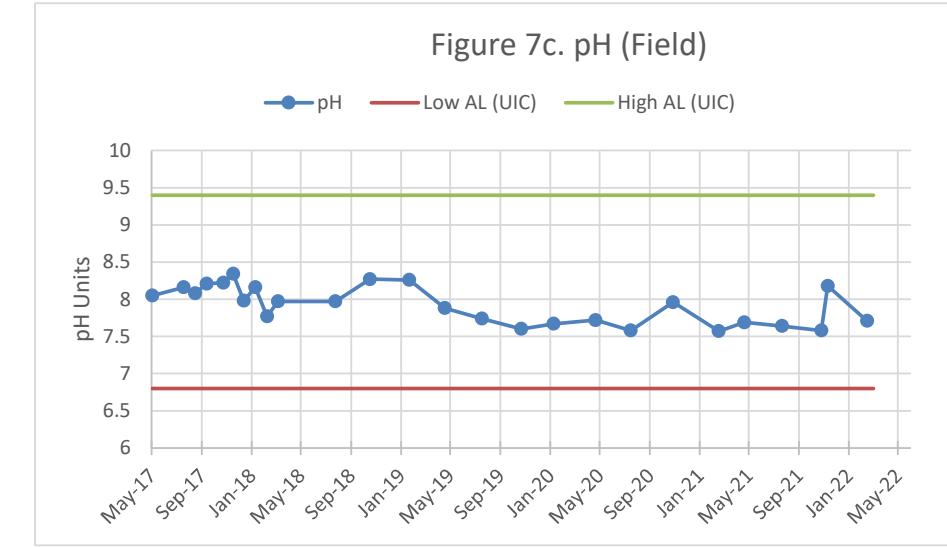
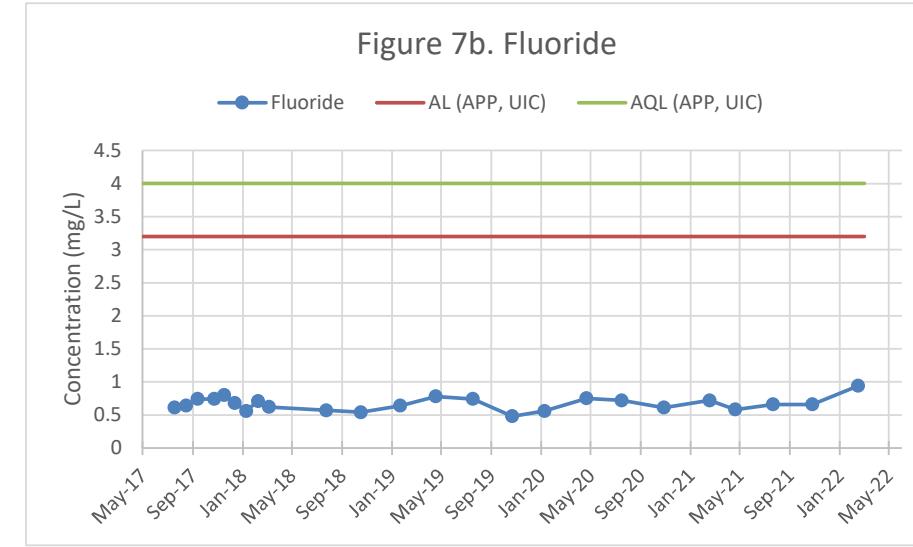
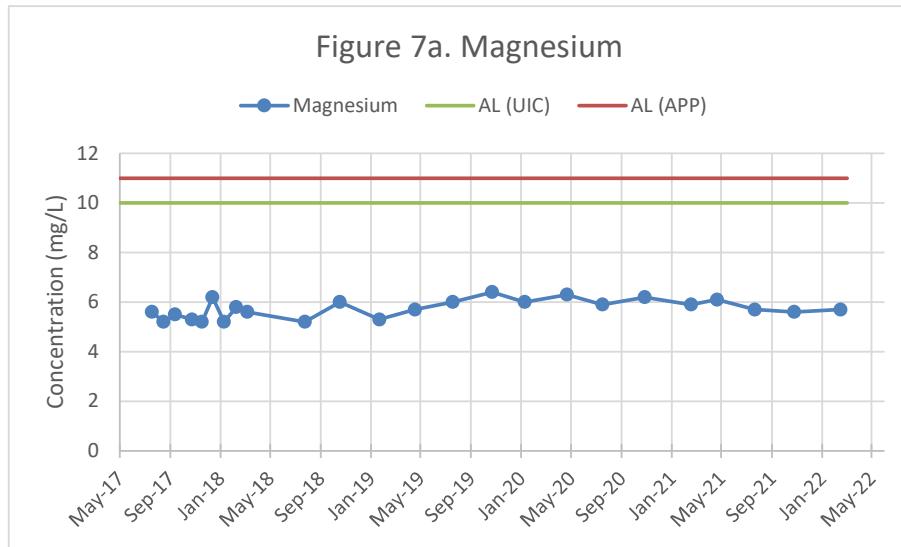
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M54-O QUARTERLY CONCENTRATION GRAPHS



Notes:

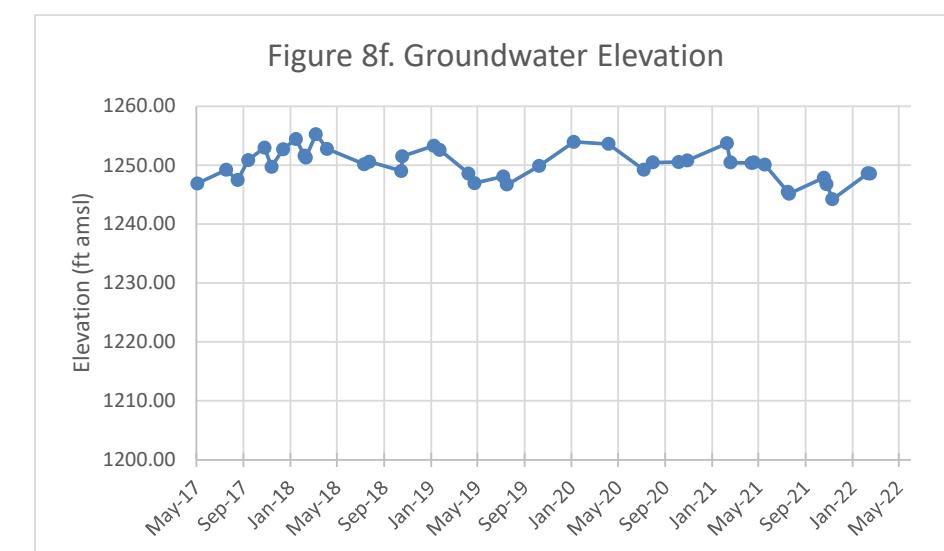
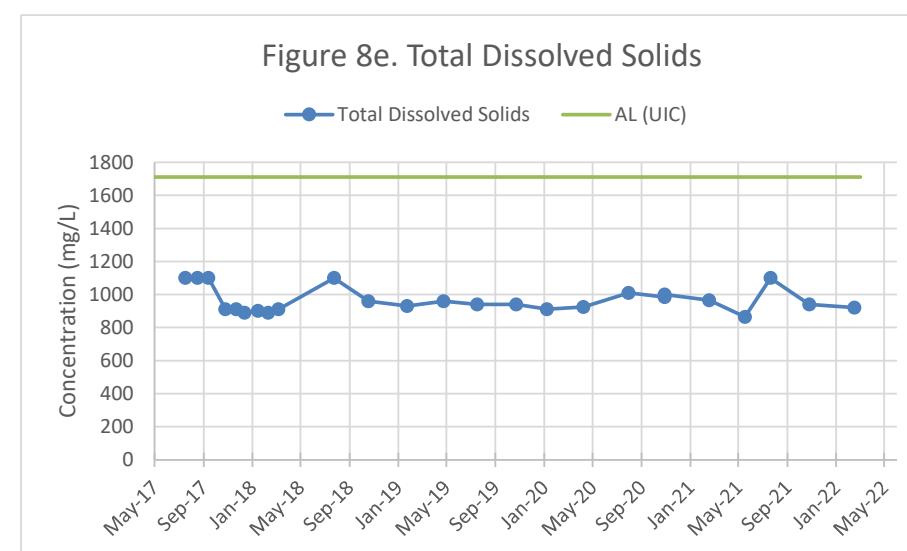
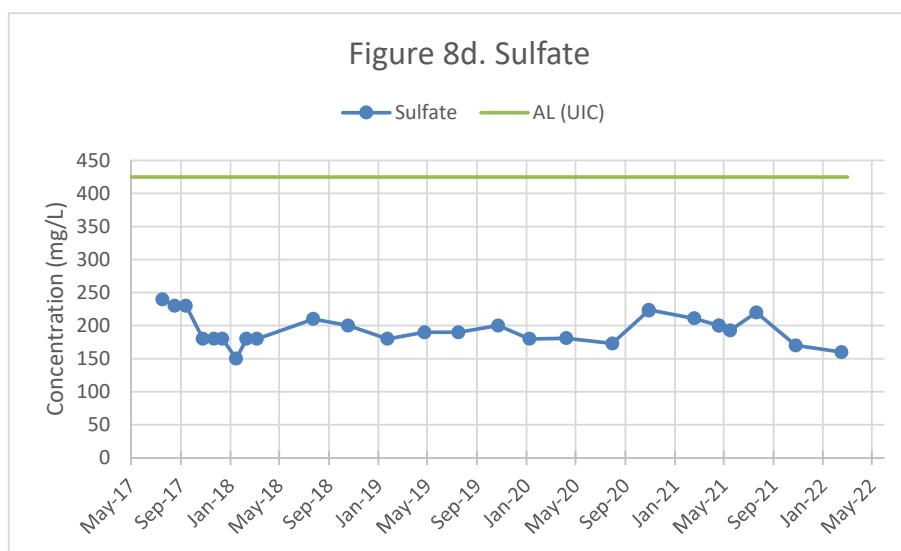
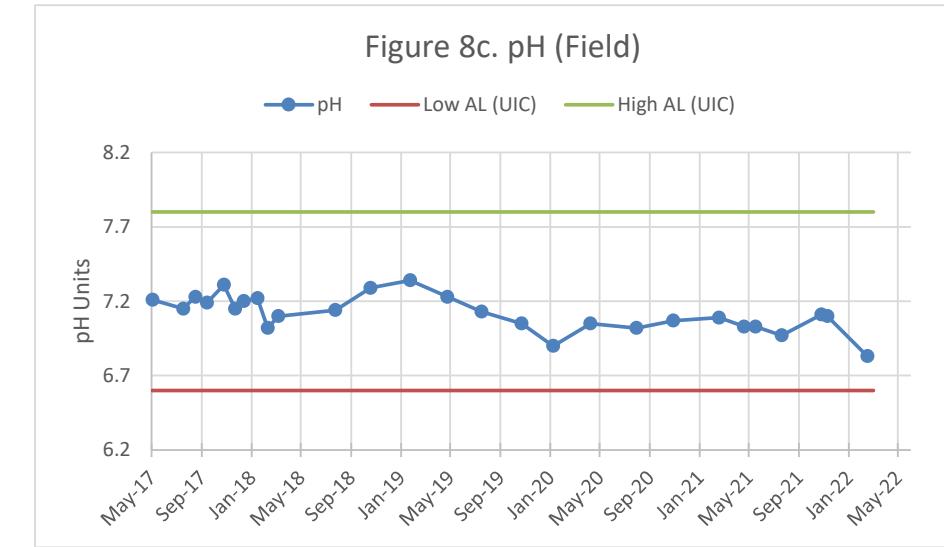
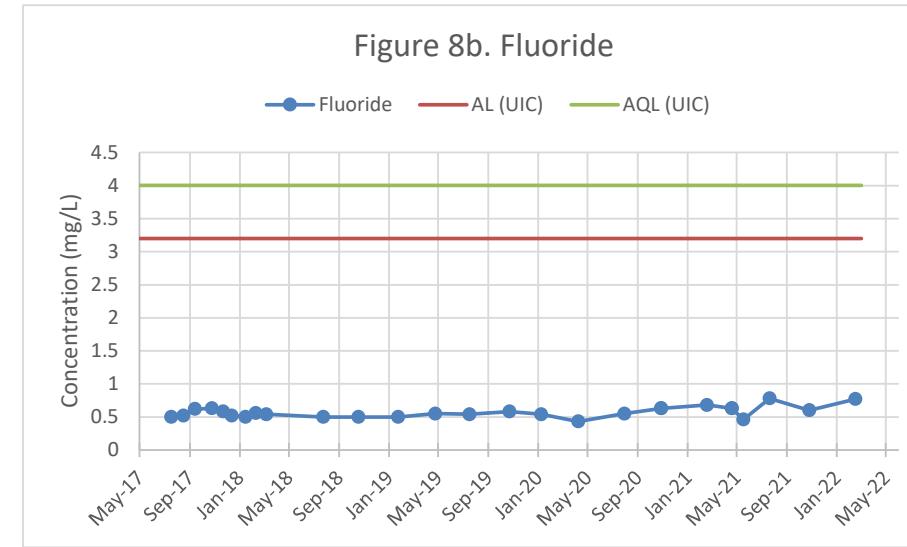
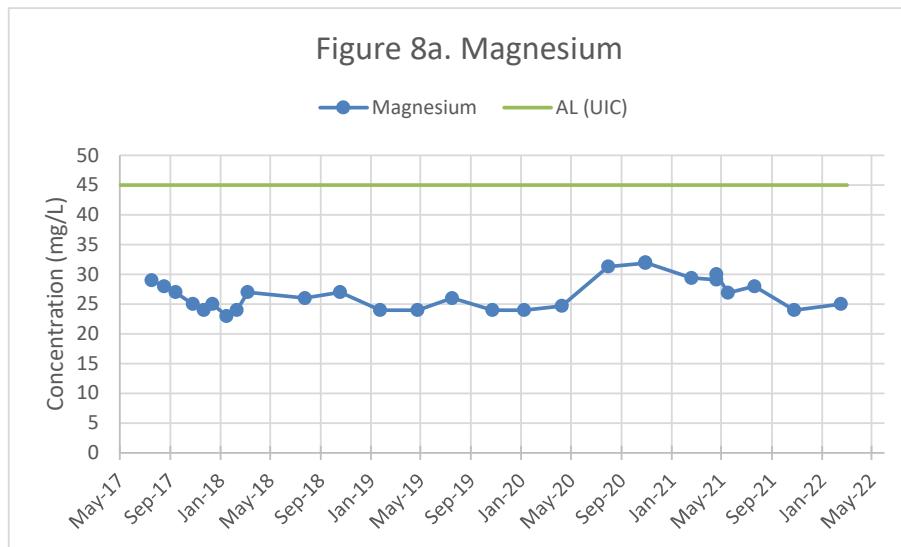
AL = Alert level

AQL = Aquifer Quality Limit

APP = APP No. P-101704

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M55-UBF QUARTERLY CONCENTRATION GRAPHS



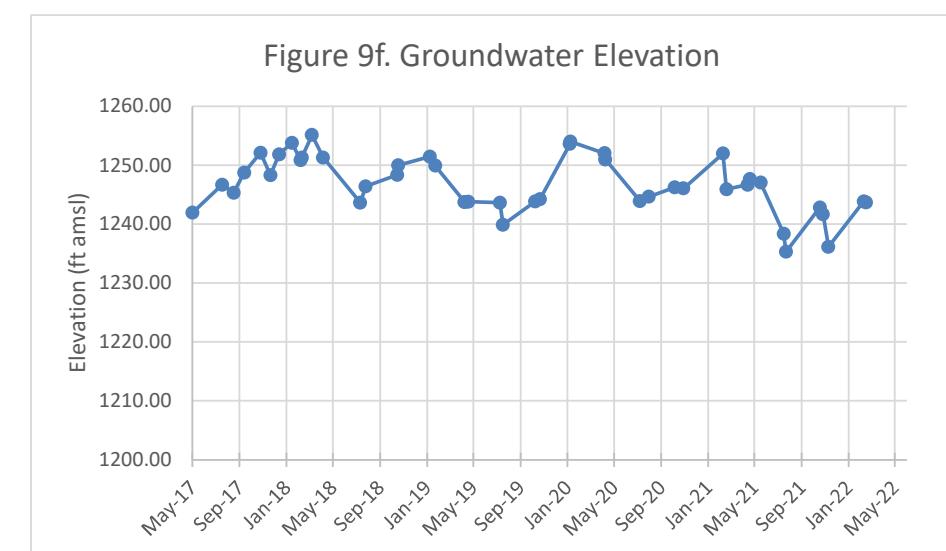
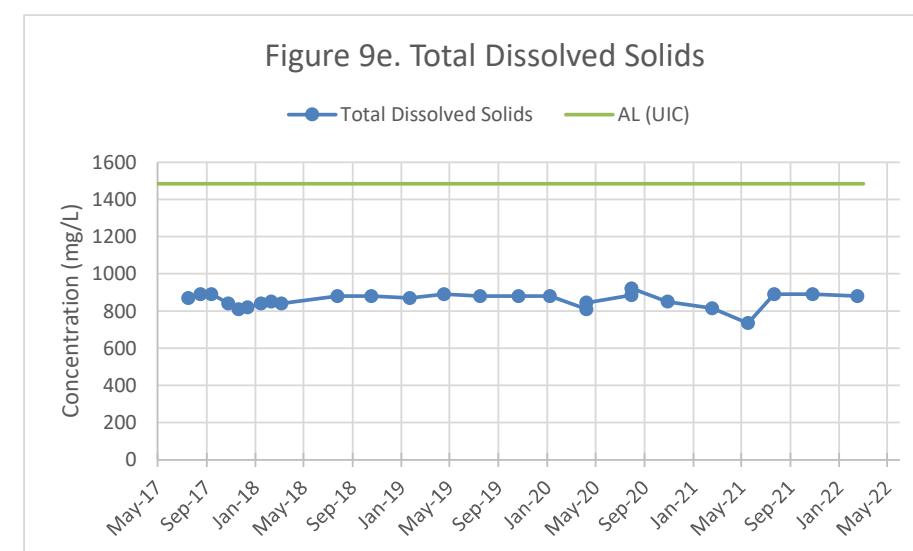
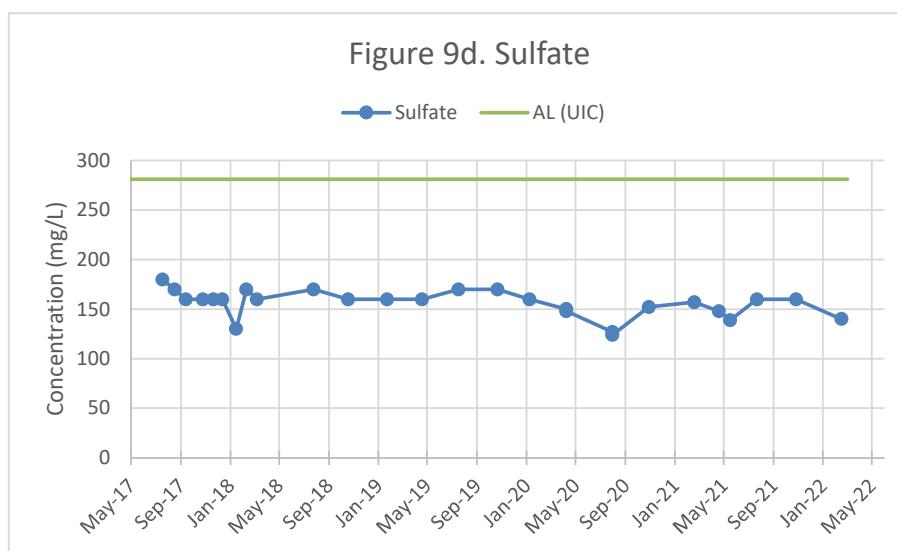
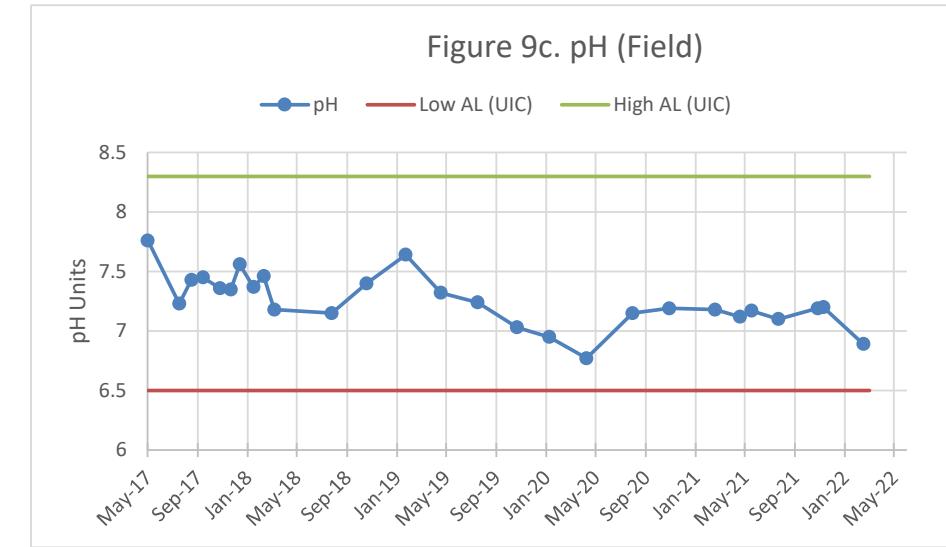
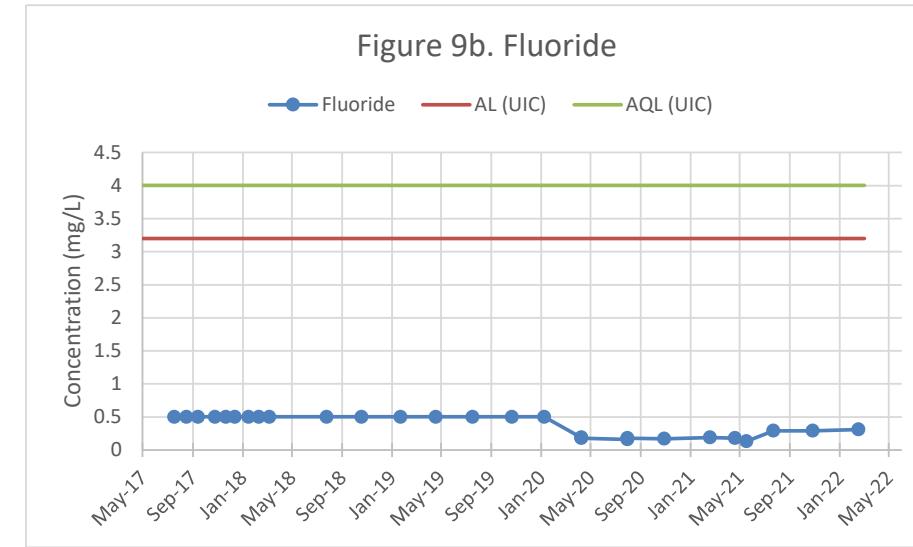
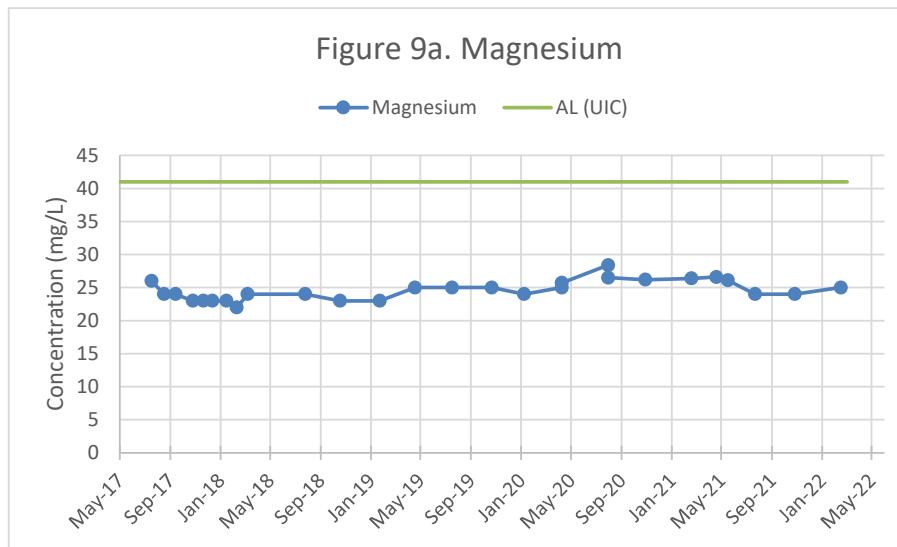
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M56-LBF QUARTERLY CONCENTRATION GRAPHS



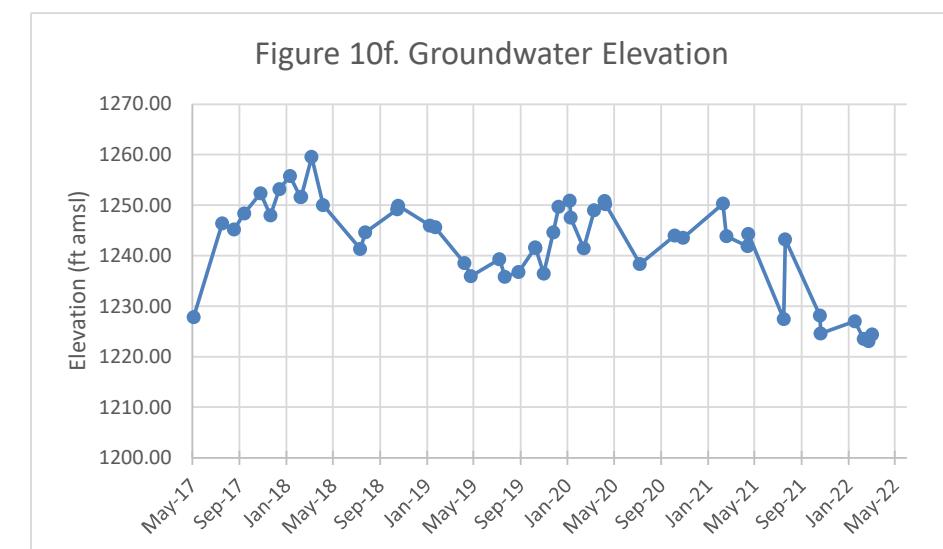
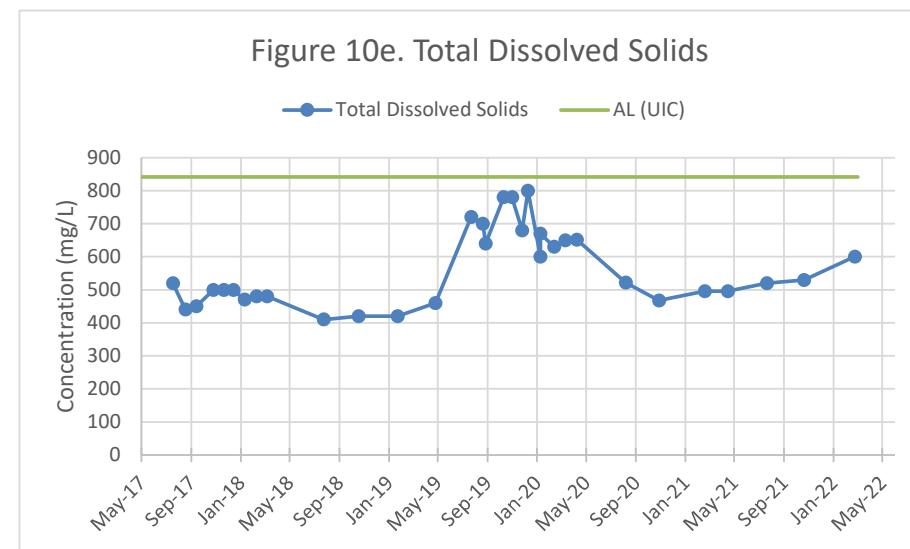
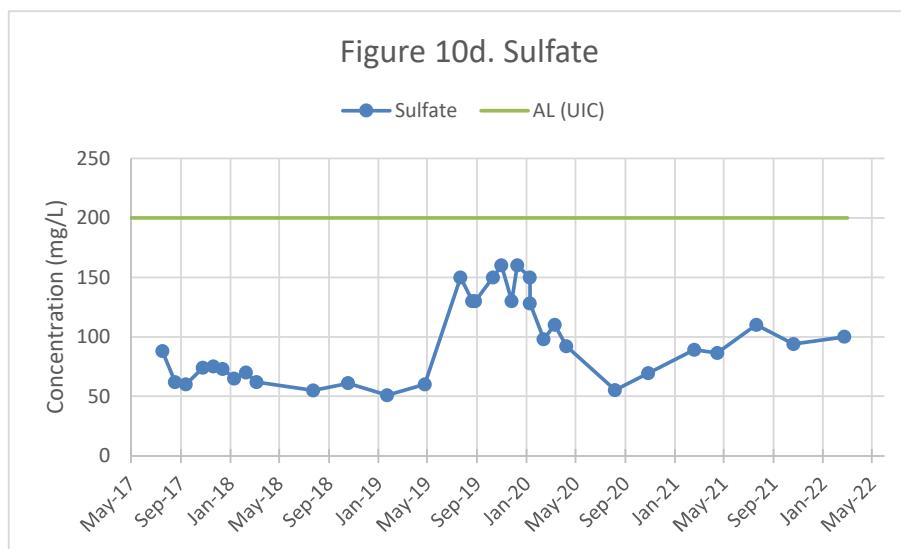
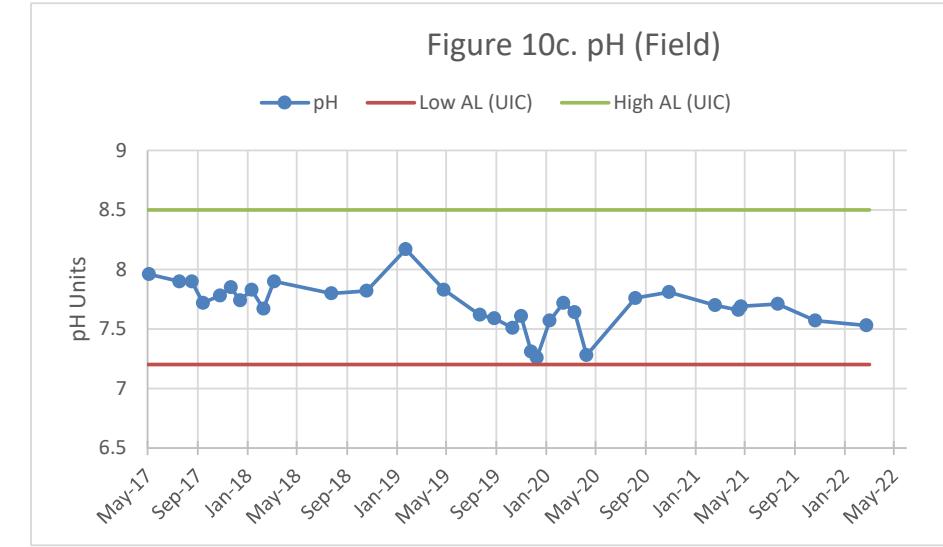
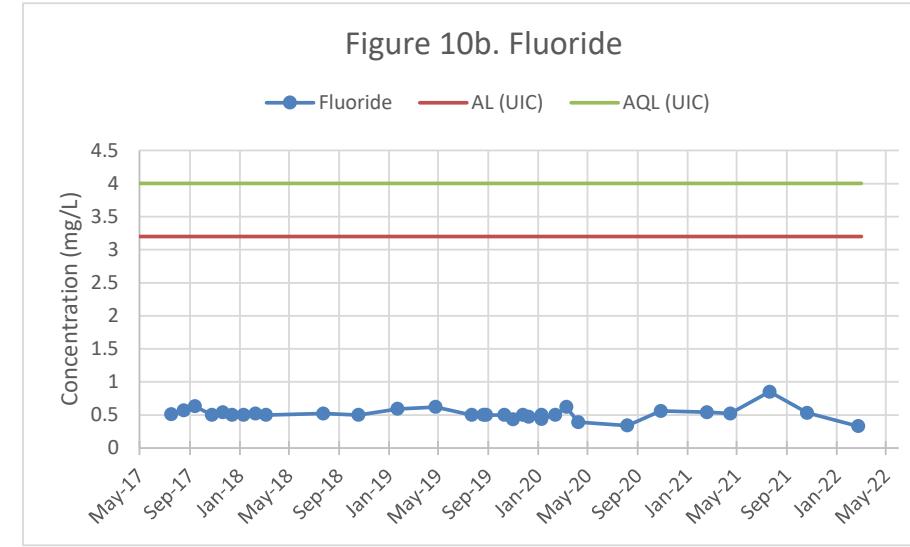
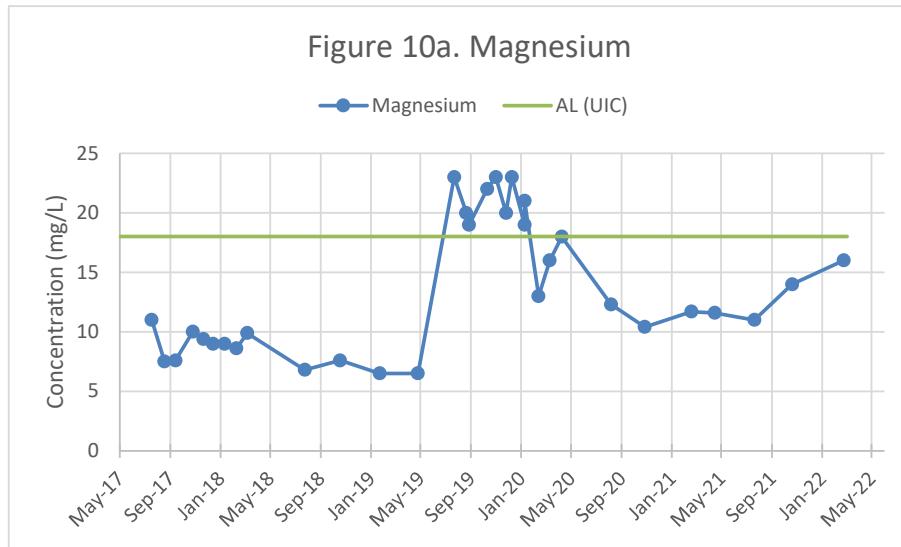
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M57-O QUARTERLY CONCENTRATION GRAPHS



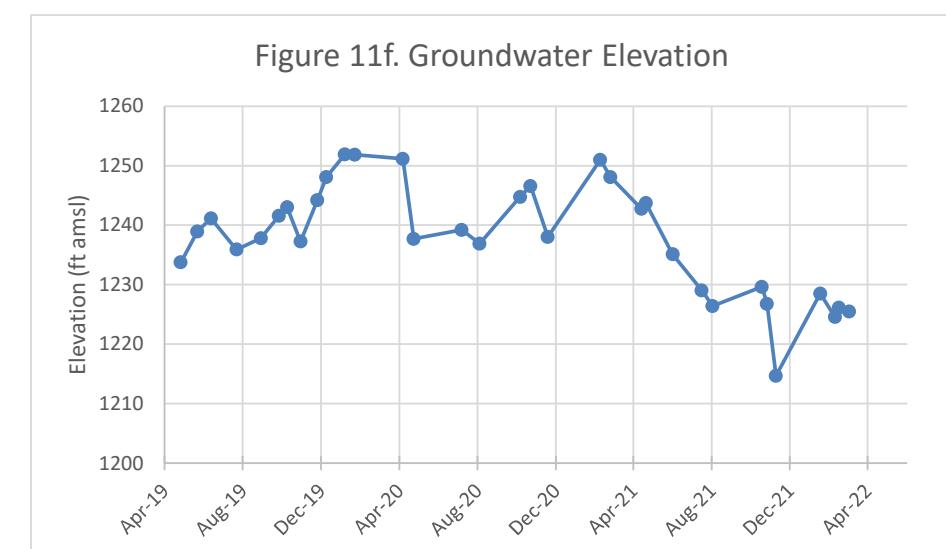
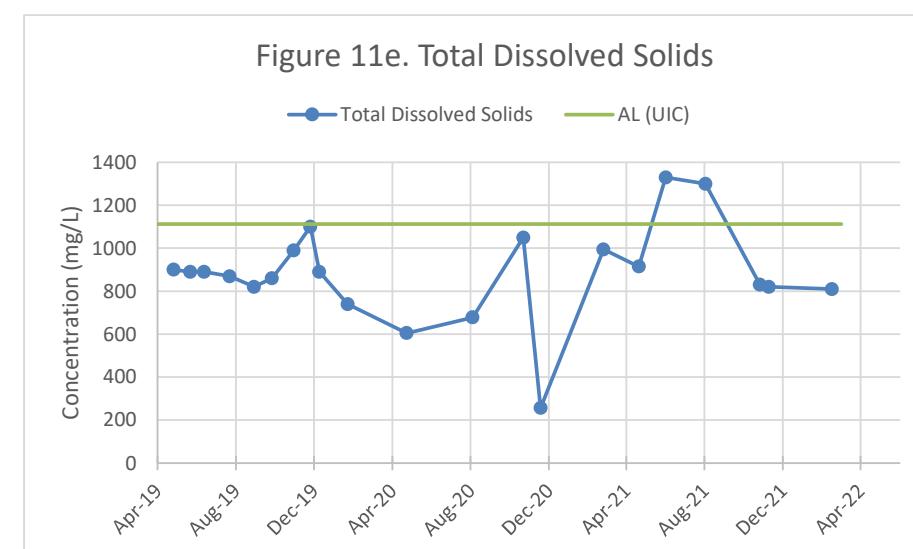
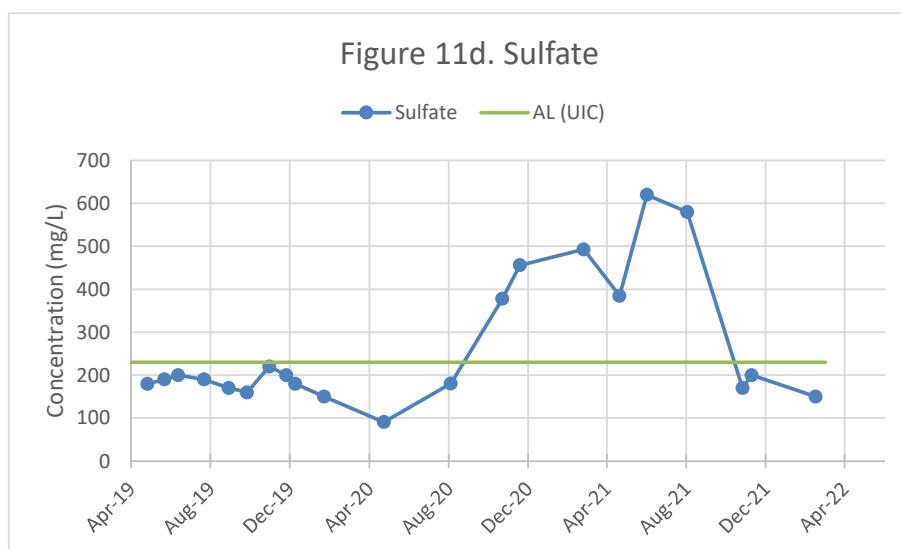
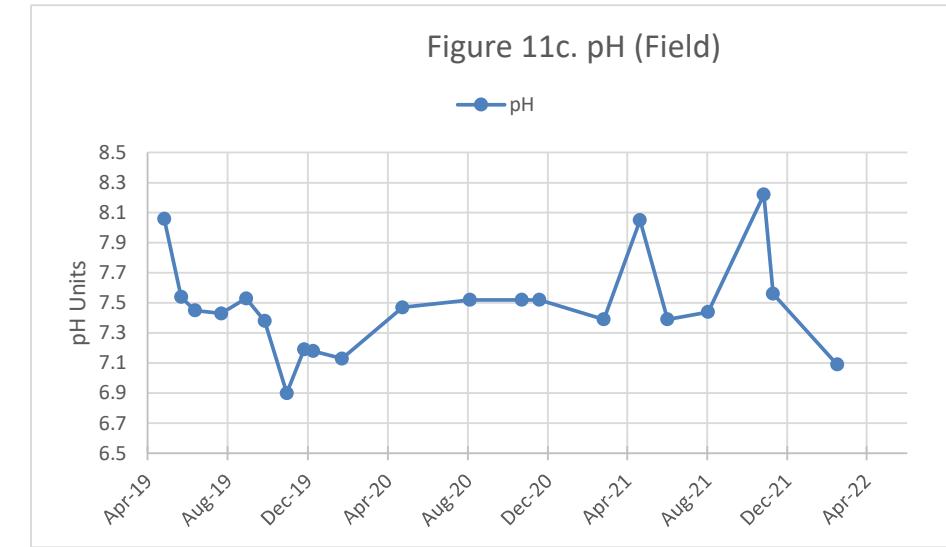
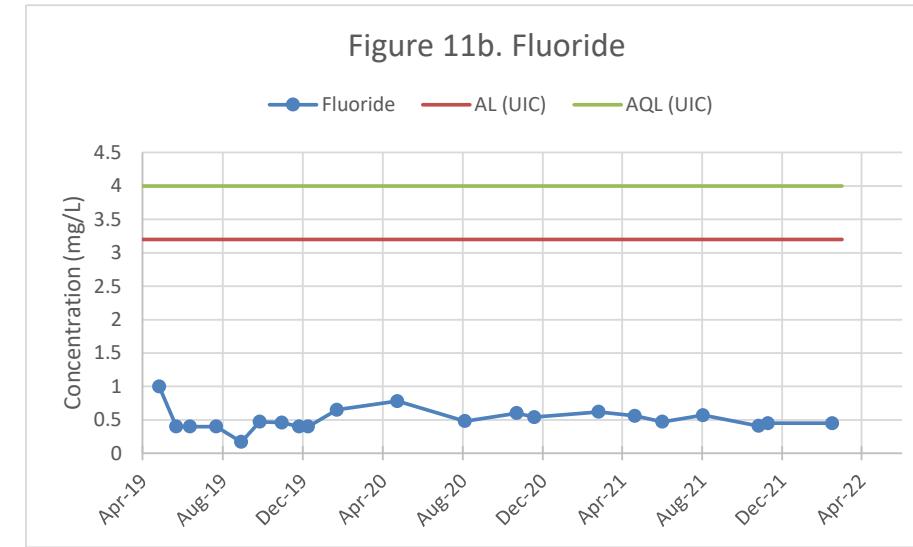
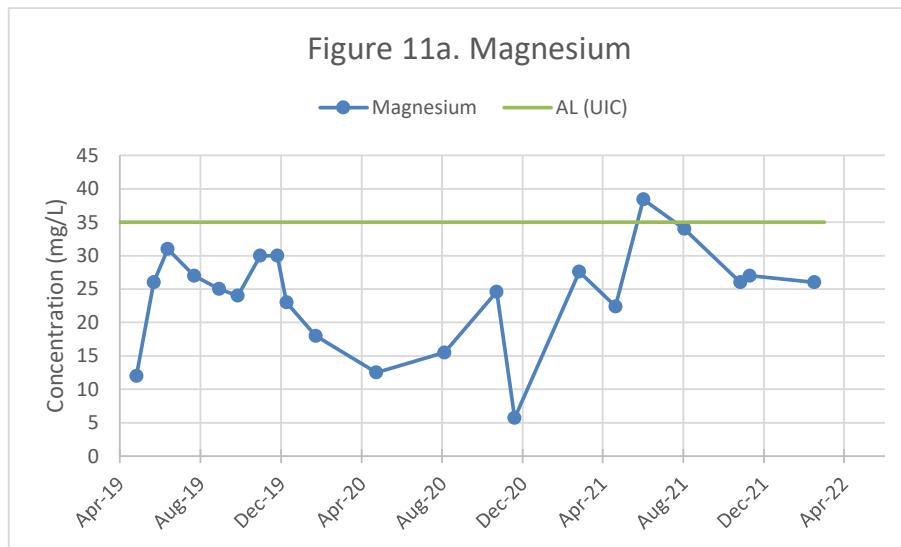
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M57R-O QUARTERLY CONCENTRATION GRAPHS



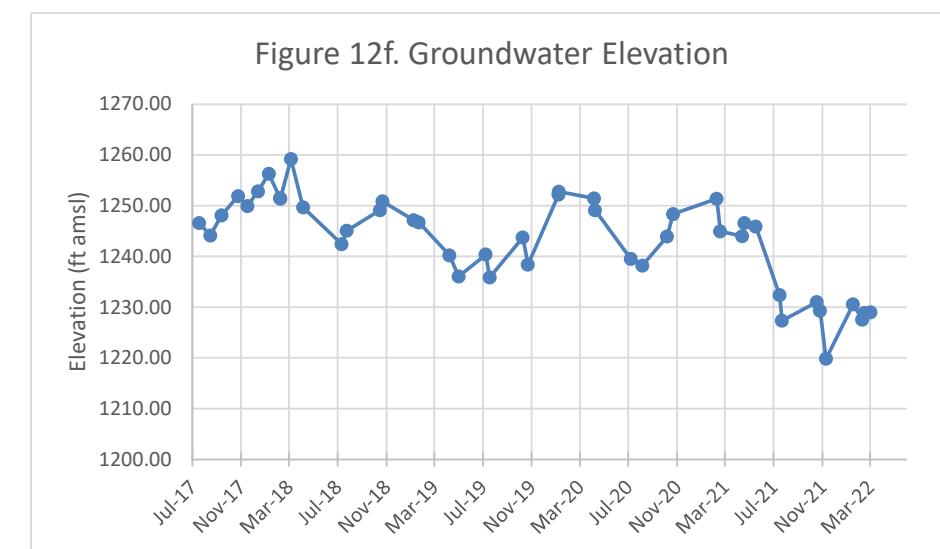
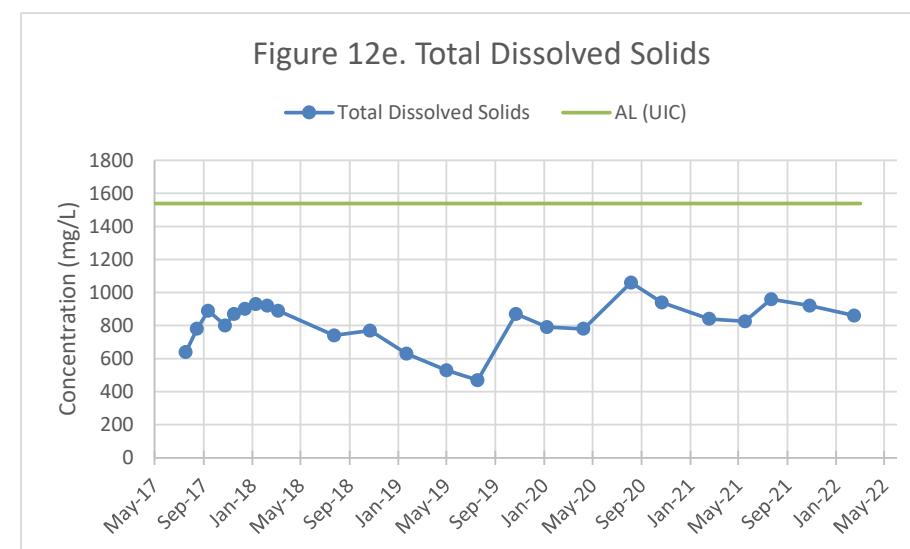
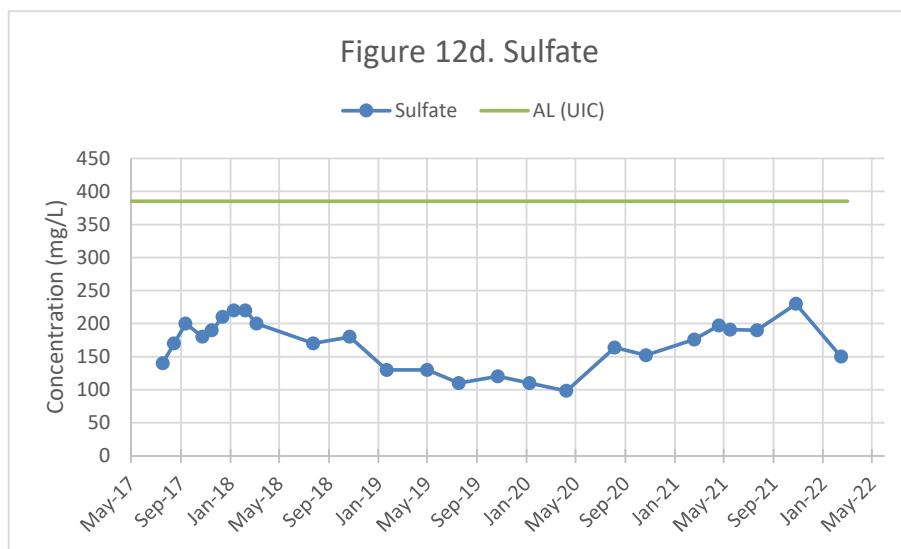
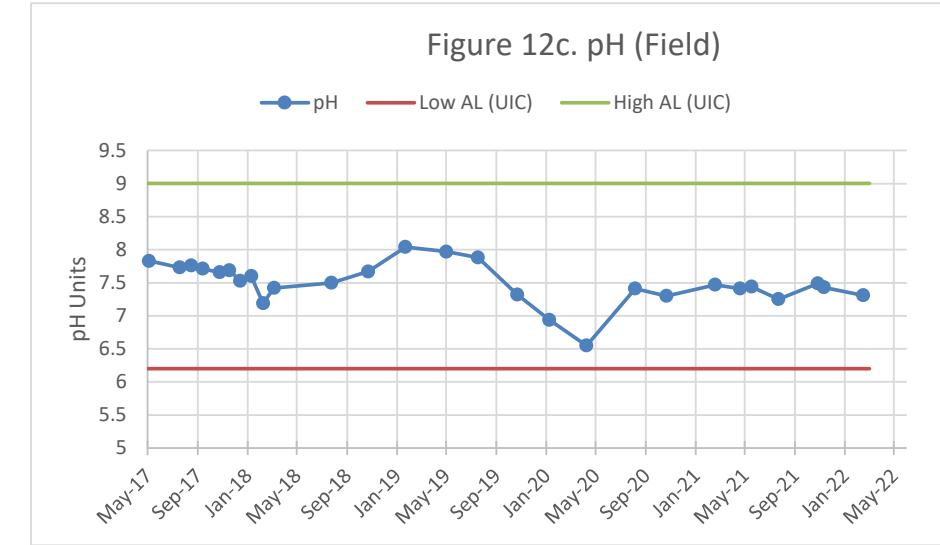
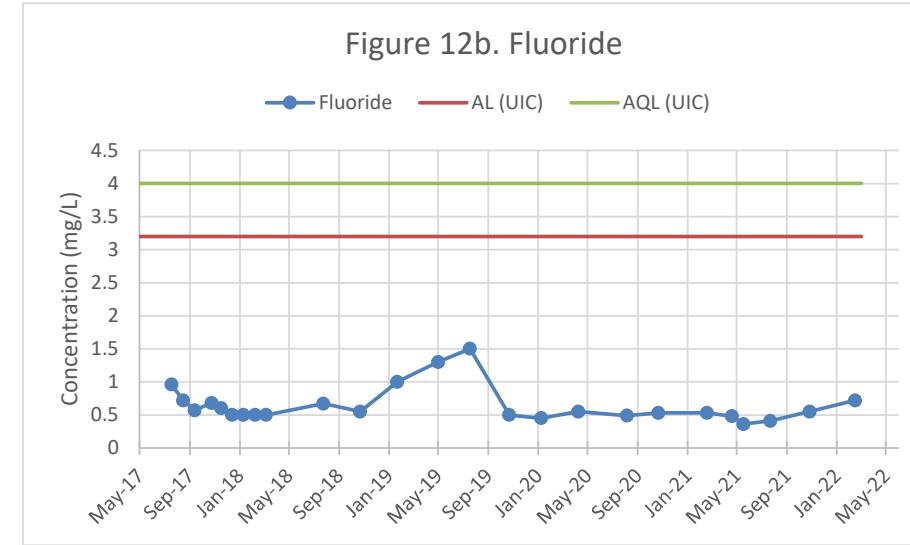
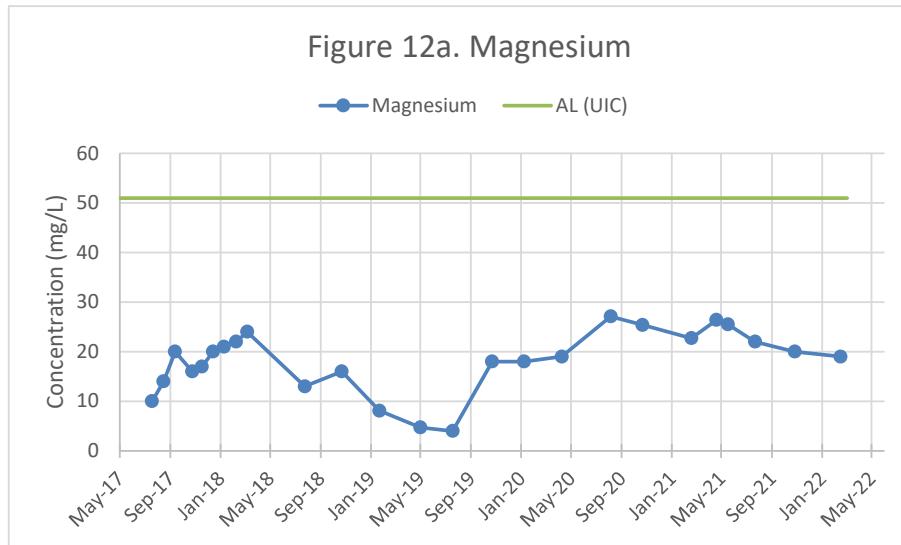
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M58-O QUARTERLY CONCENTRATION GRAPHS



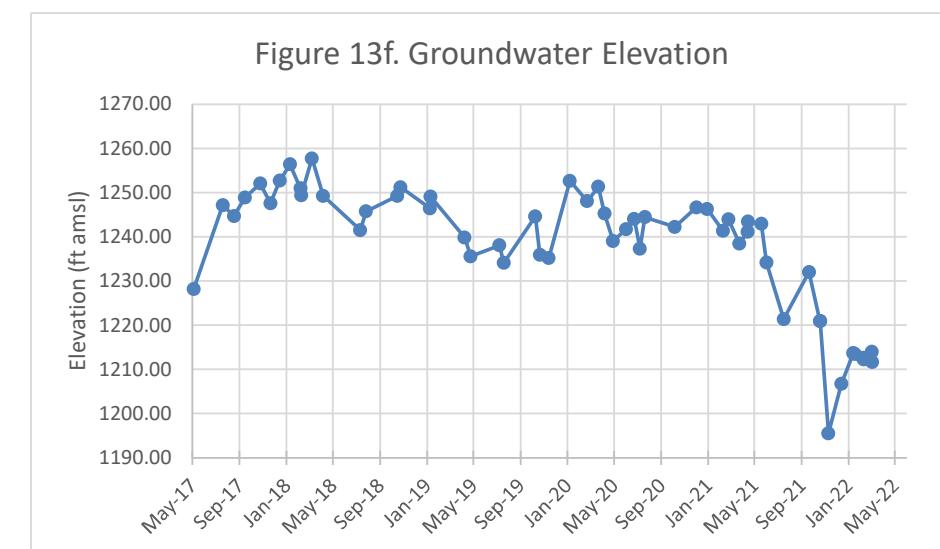
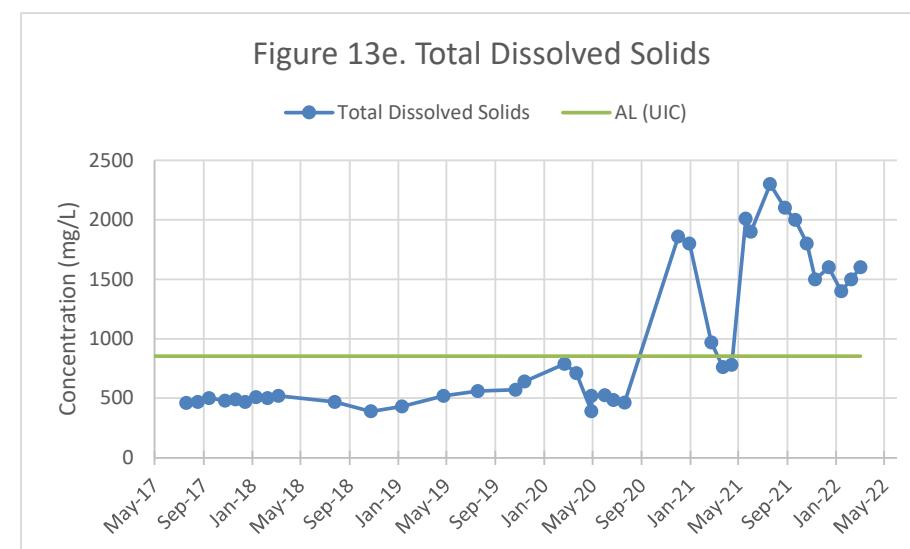
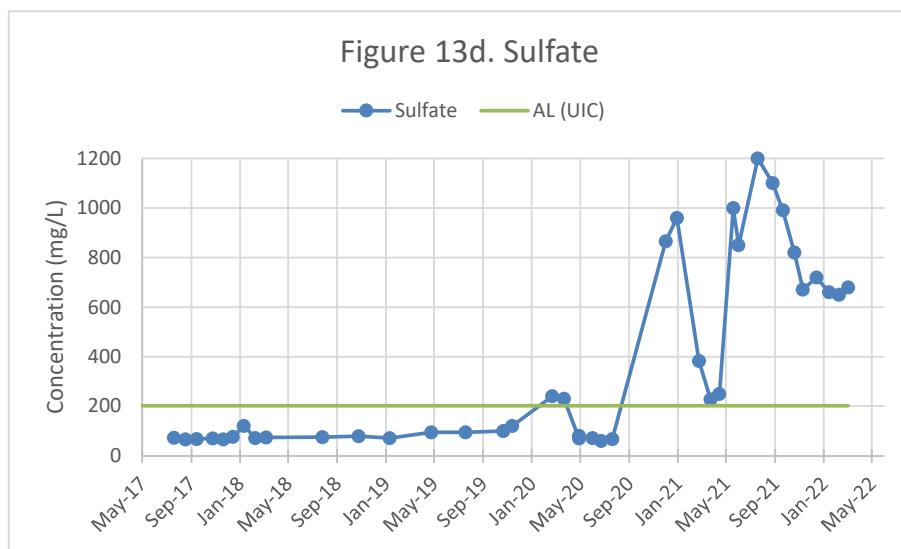
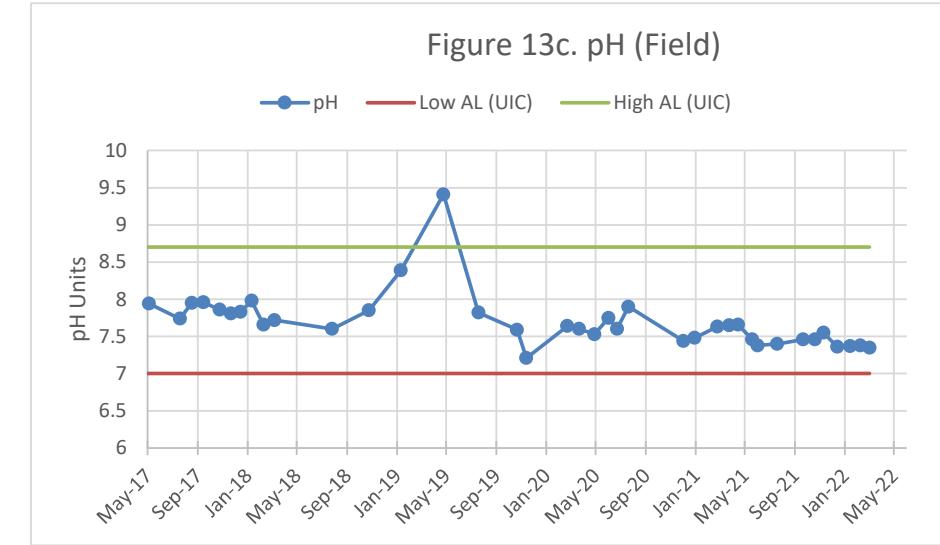
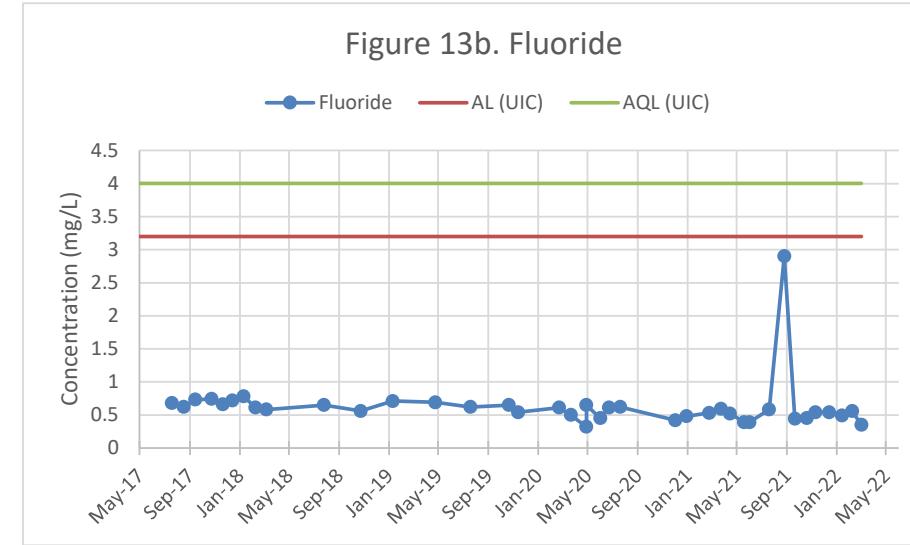
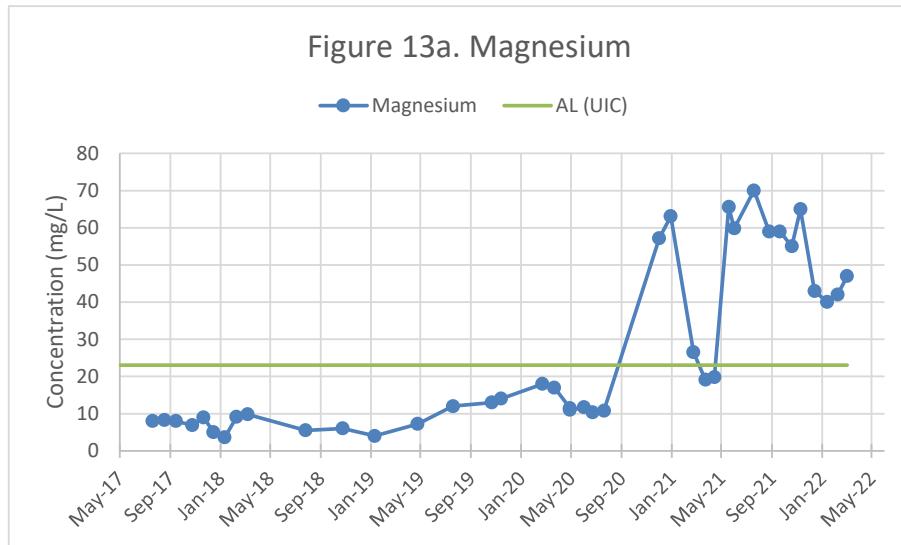
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M59-O QUARTERLY CONCENTRATION GRAPHS



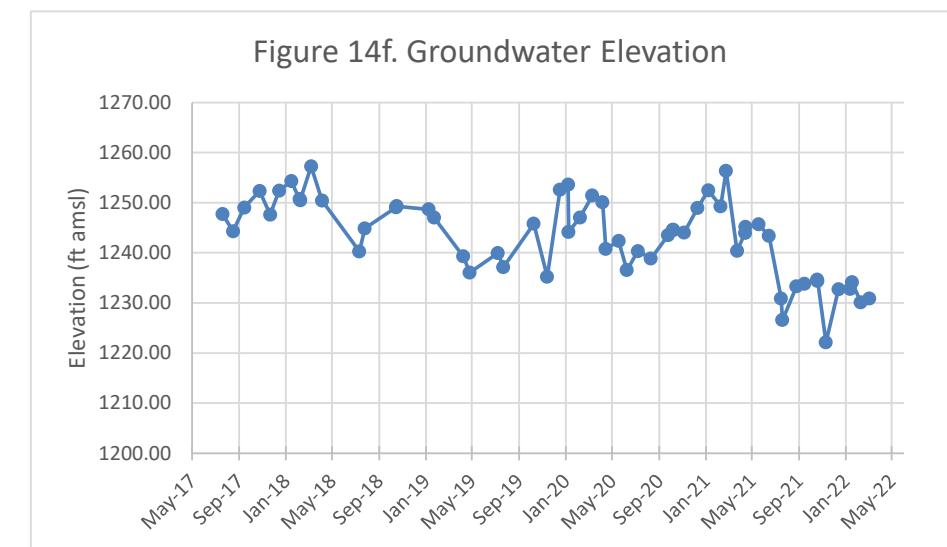
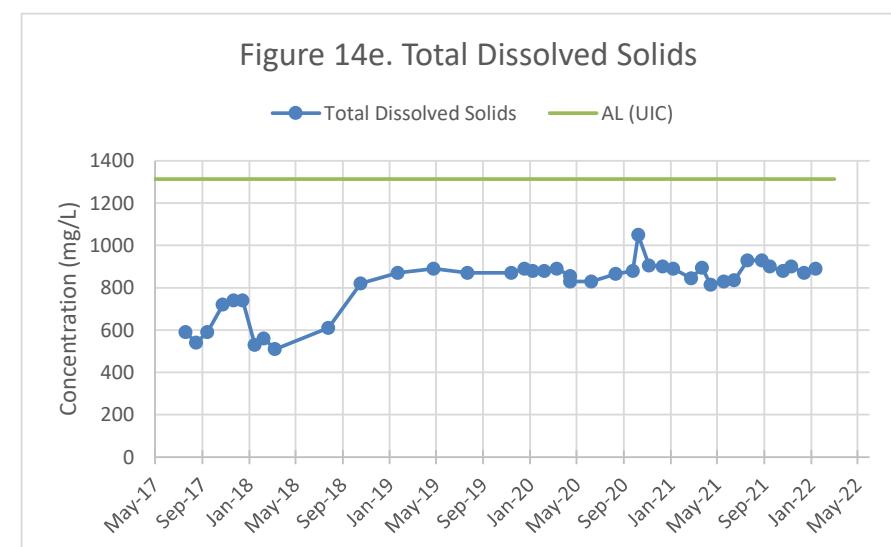
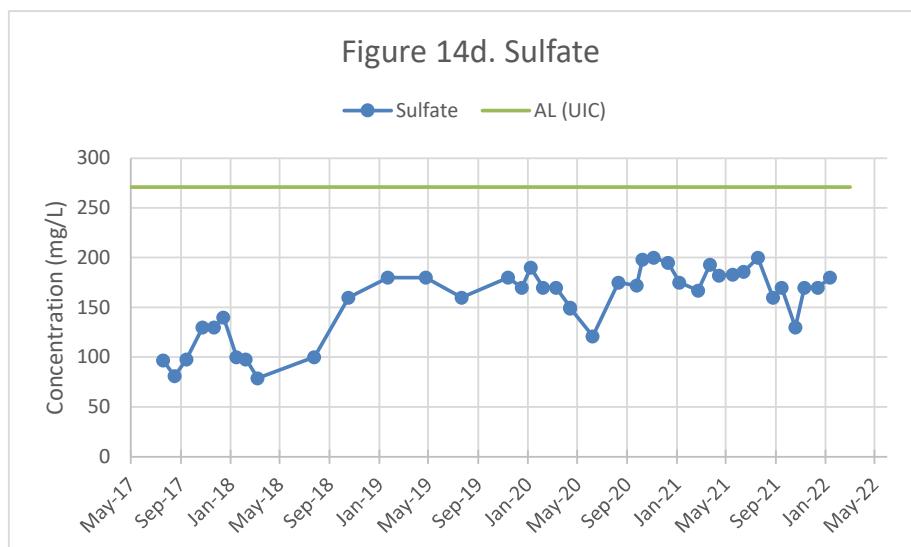
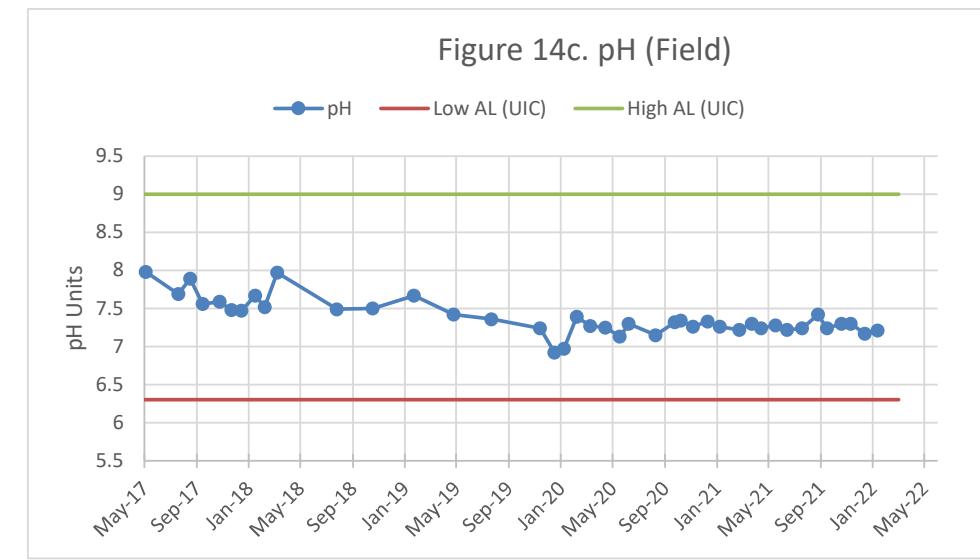
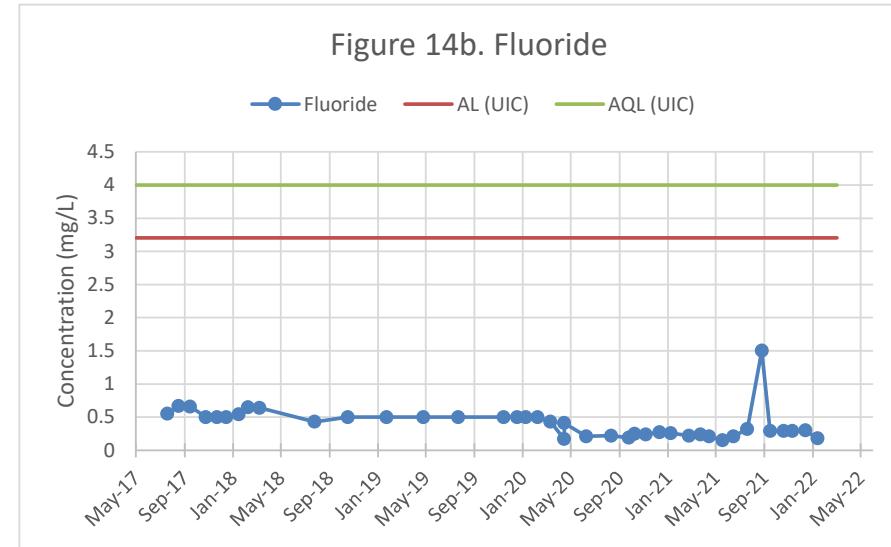
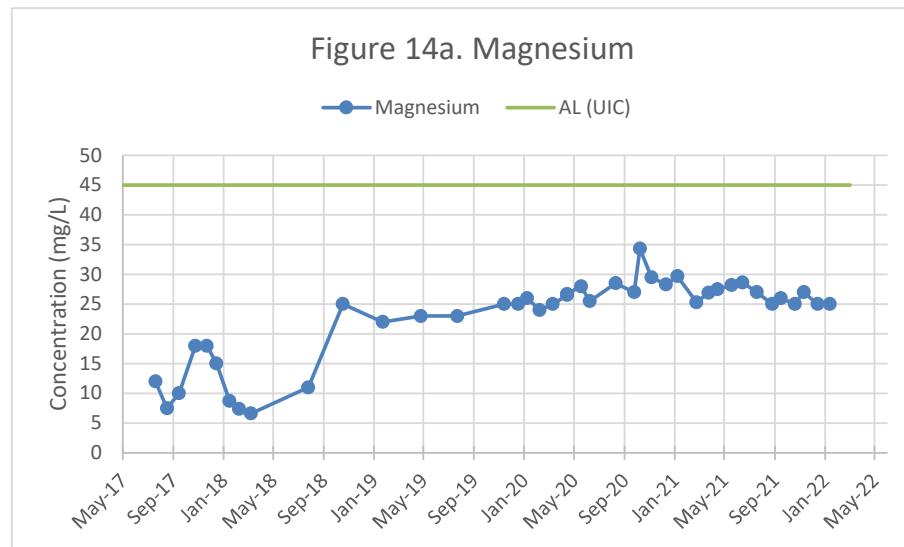
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M60-O QUARTERLY CONCENTRATION GRAPHS



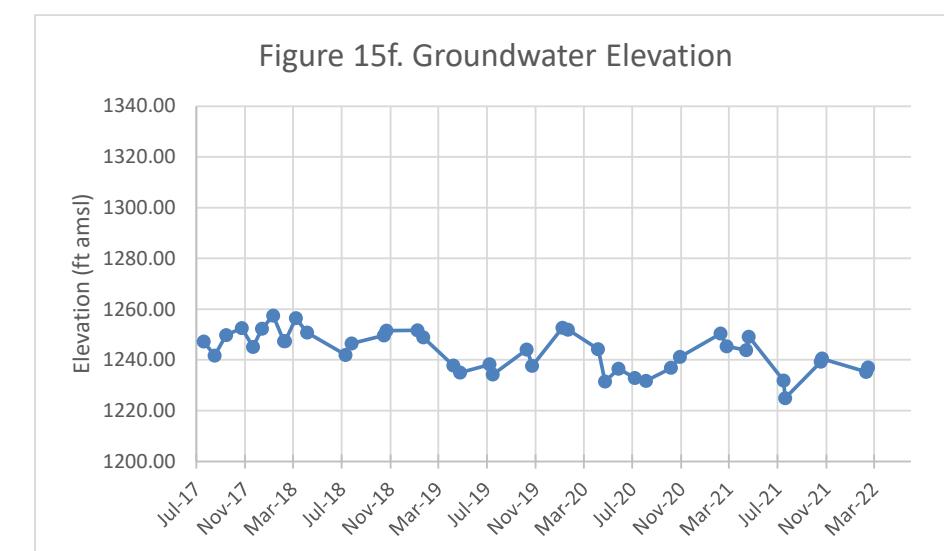
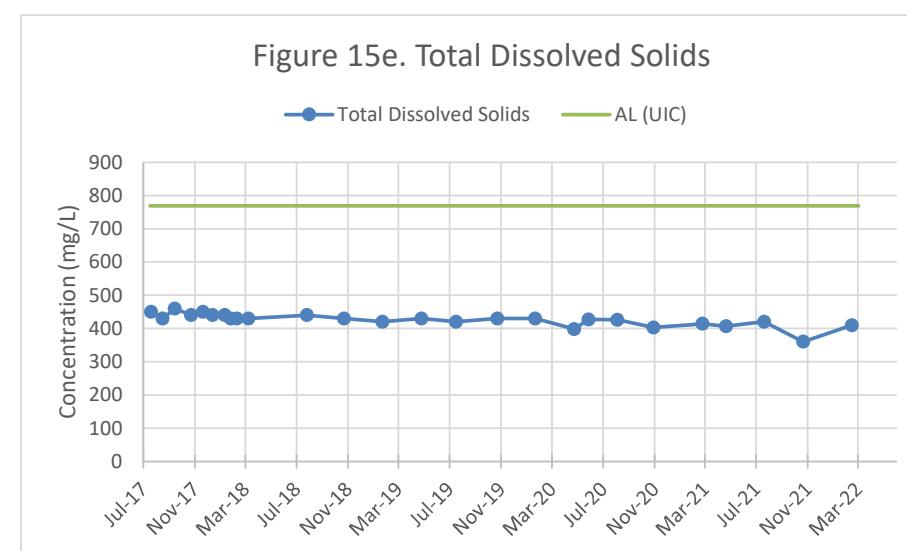
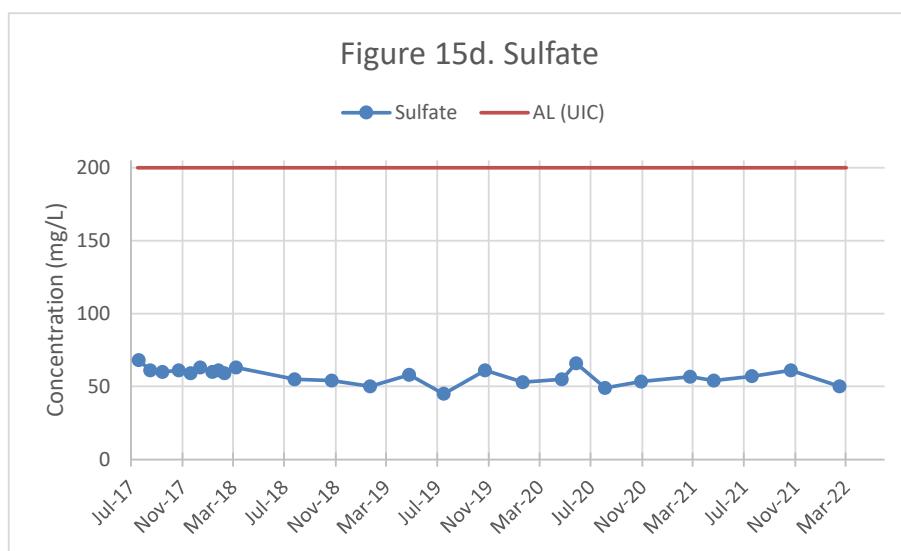
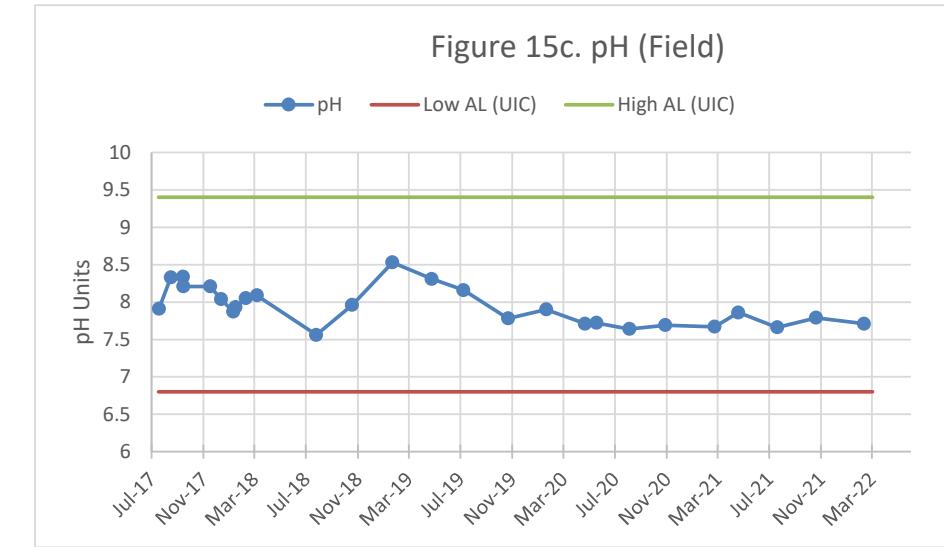
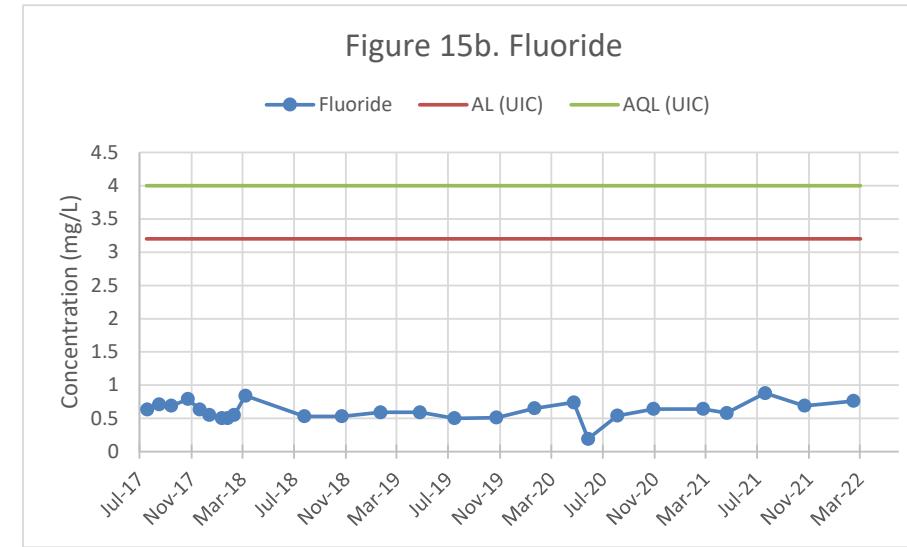
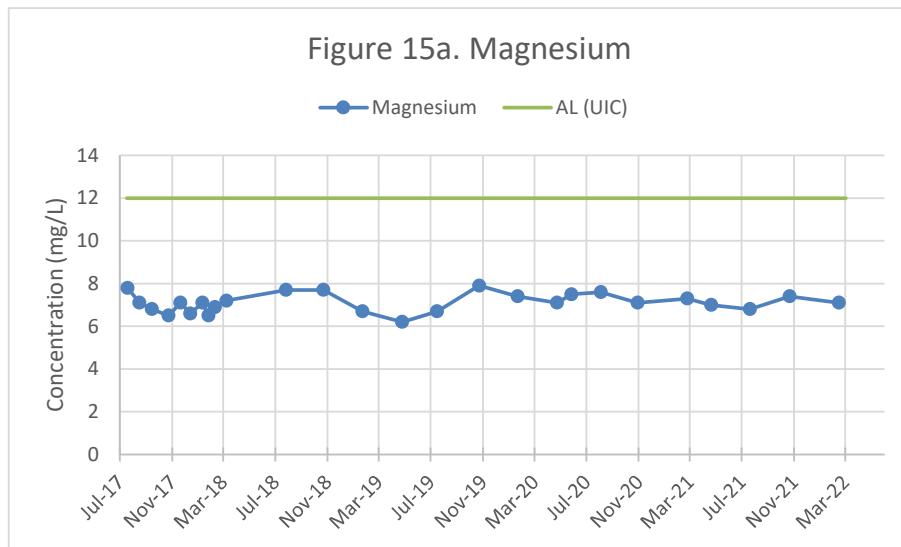
Notes:

AL = Alert level

AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

M61-LBF QUARTERLY CONCENTRATION GRAPHS



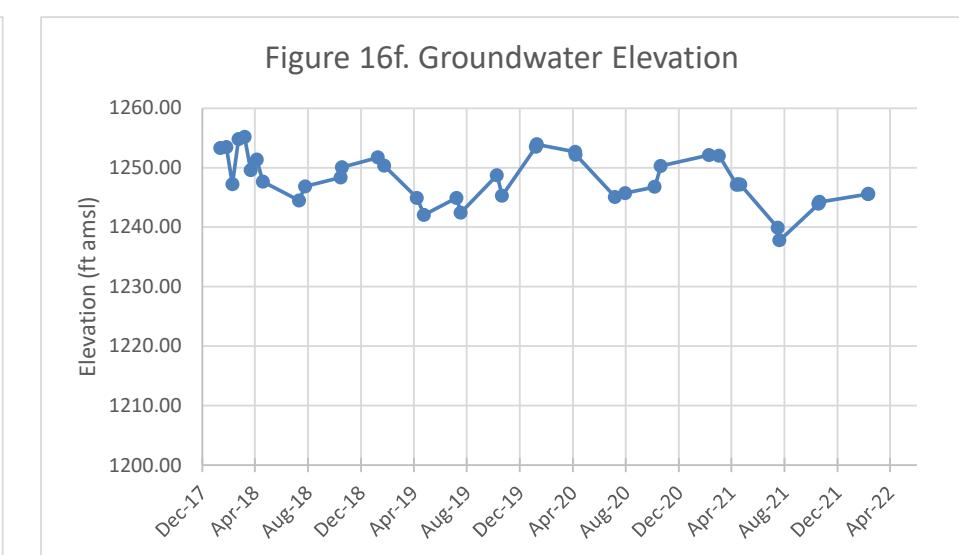
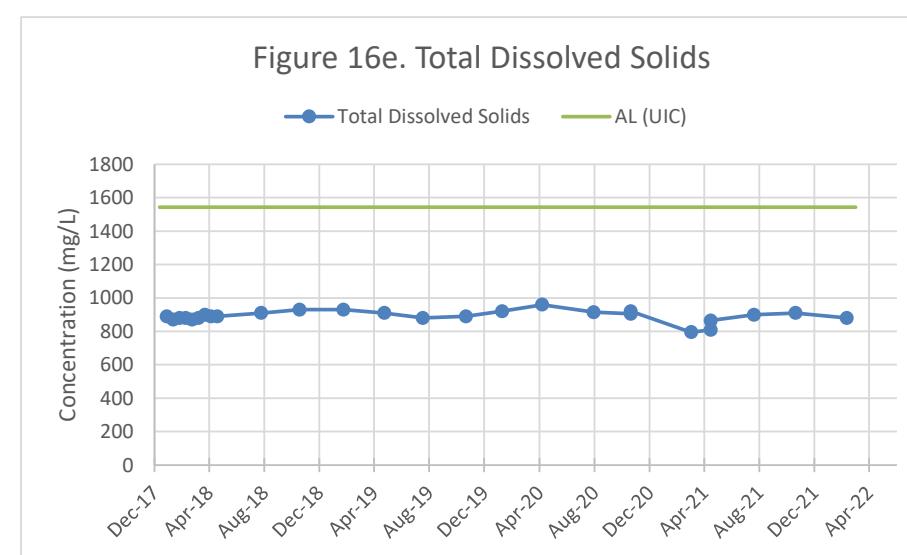
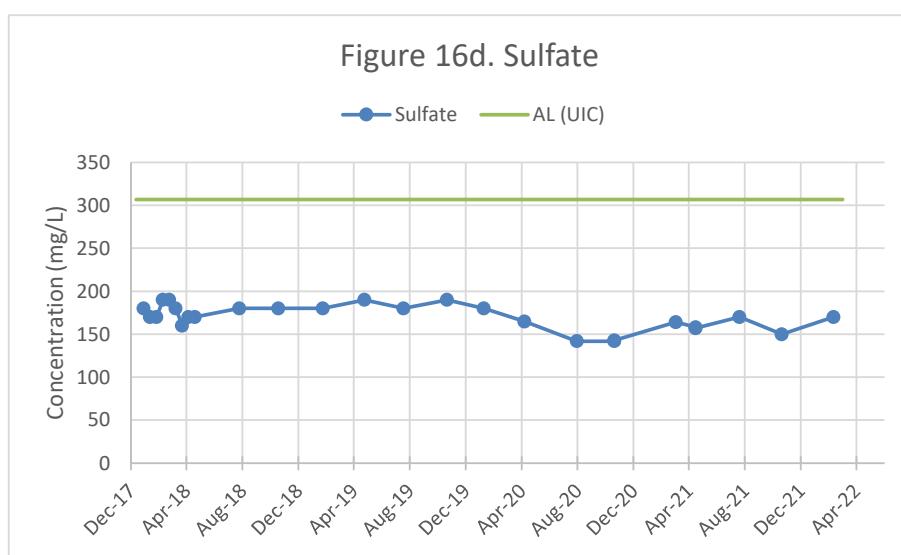
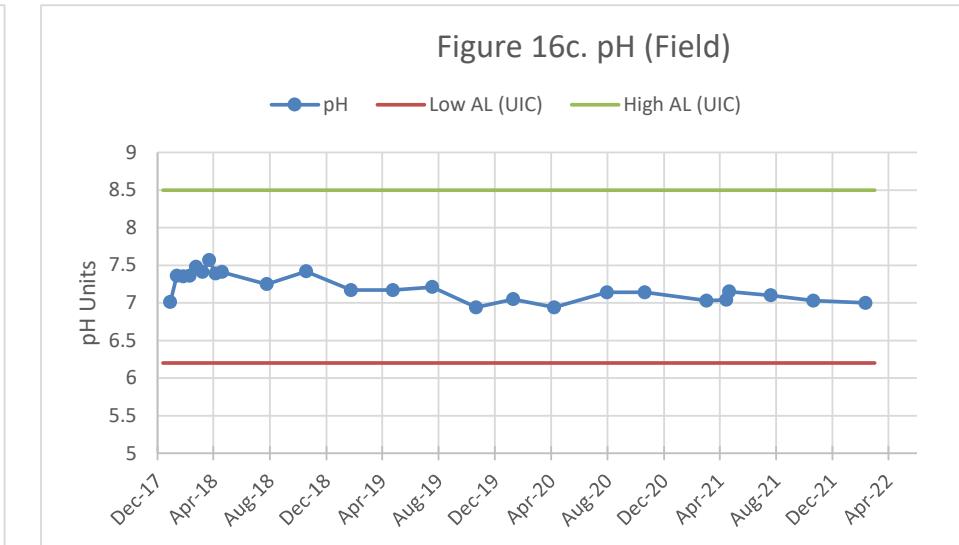
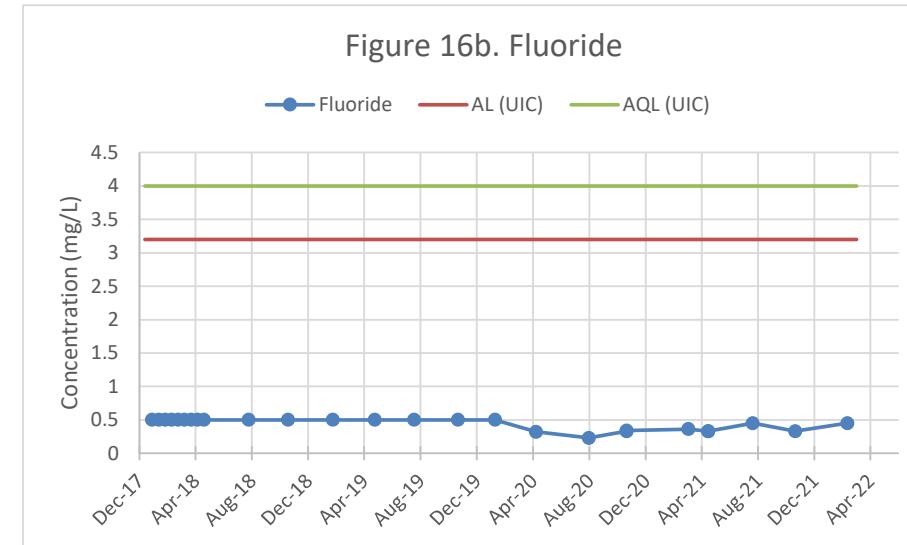
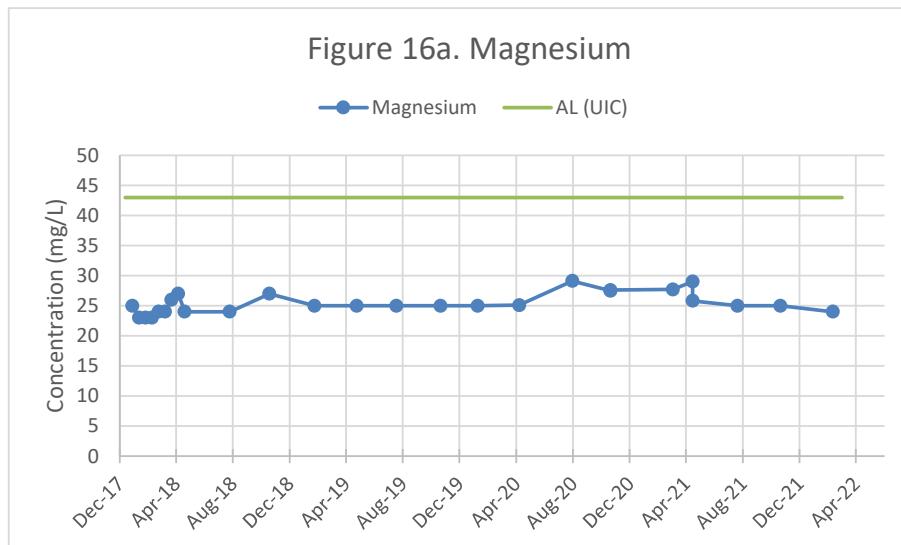
Notes:

AL = Alert level

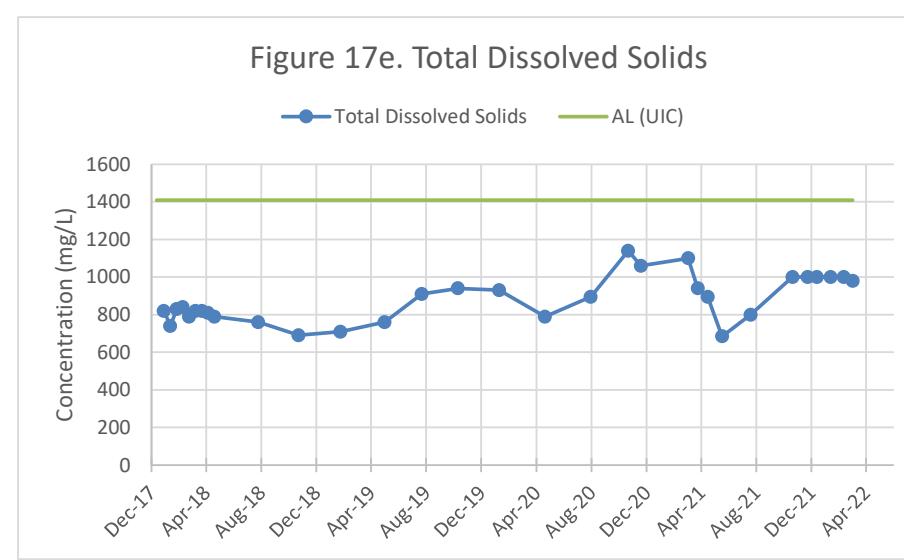
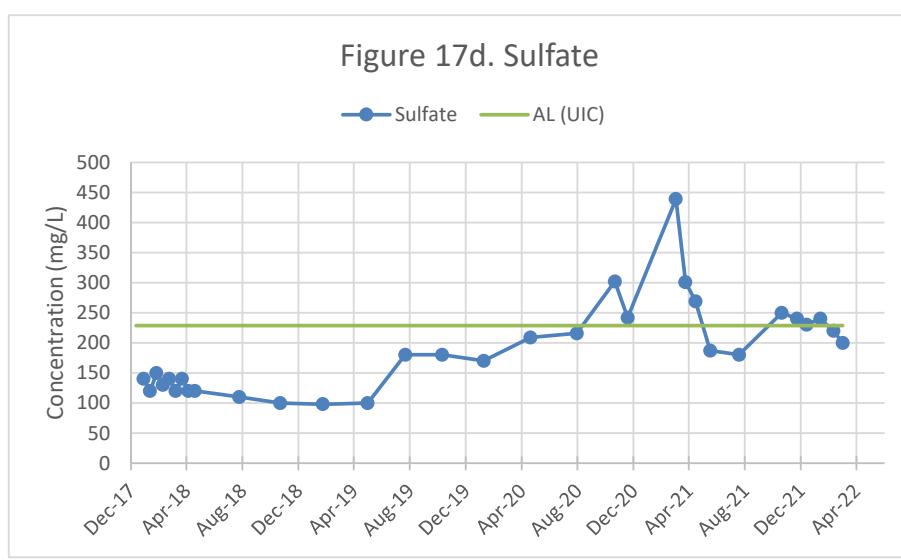
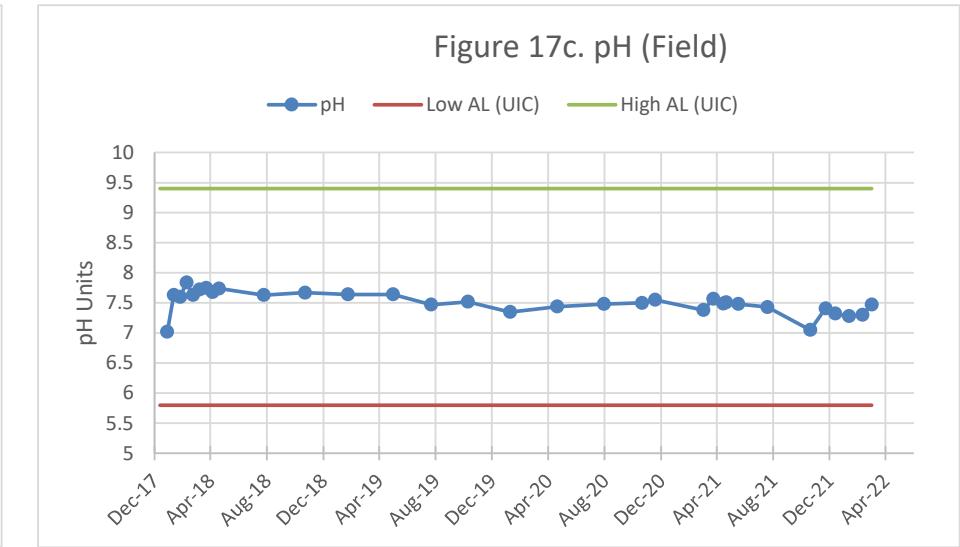
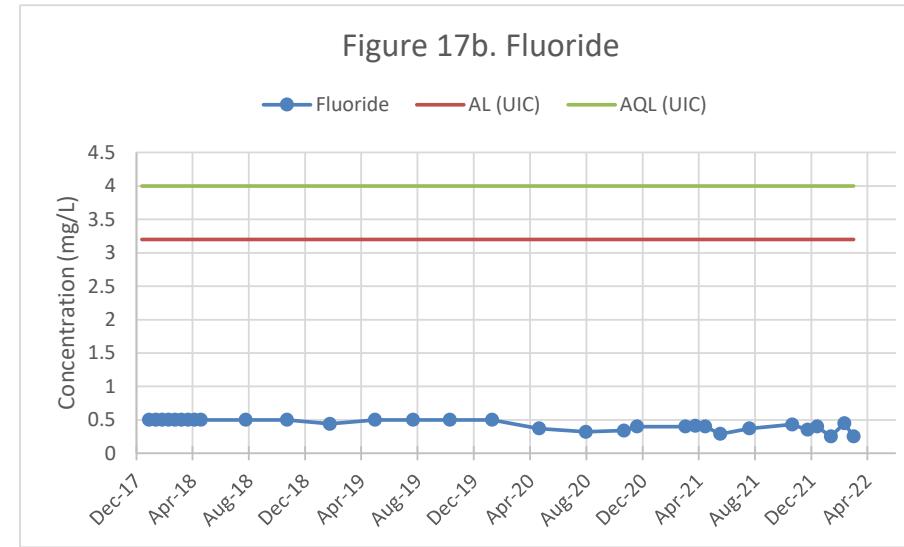
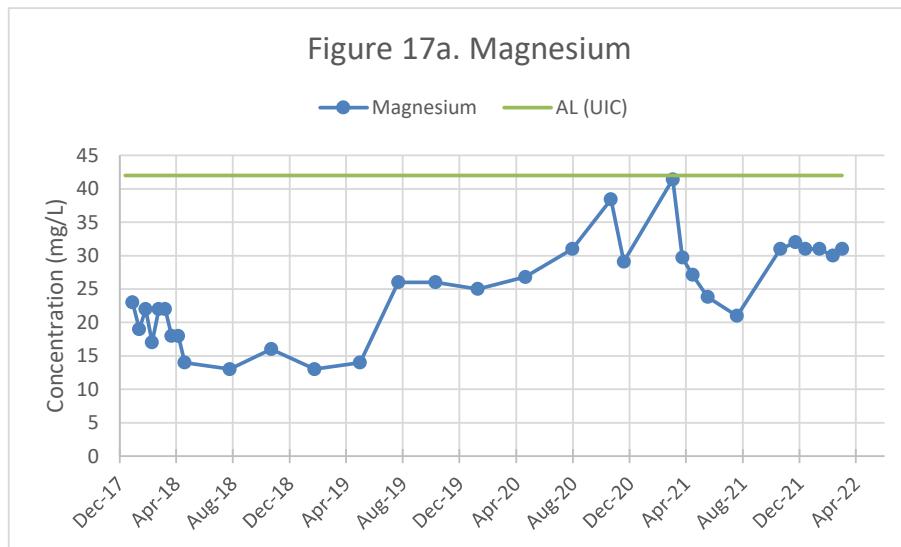
AQL = Aquifer Quality Limit

UIC = UIC Permit No. R9UIC-AZ3-FY11-1

MW-01-LBF QUARTERLY CONCENTRATION GRAPHS



MW-01-O QUARTERLY CONCENTRATION GRAPHS



ATTACHMENT 6B

Well Details and Water Level Elevations

TABLE 1
UIC MONITORING WELL DETAILS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Well ID	Well Type	ADWR #	Total Well Depth (ft bgs)	Latitude	Longitude	Screened Interval (ft bgs)	Aquifer Unit
M14-GL	POC	55-549172	838	33°03'4.0"N	111°26'15.77"W	778-838	LBFU
M15-GU	POC	55-547813	594	33°03'4.04"N	111°26'16.40"W	554-594	LBFU
M22-O	POC	55-555831	1,130	33°03'4.53"N	111°26'15.76"W	932-1,130	OXIDE
M23-UBF	POC	55-555824	250	33°03'4.51"N	111°26'16.50"W	210-250	UBFU
M54-LBF	POC	55-226792	629	33°03'7.07"N	111°26'9.29"W	310-629	LBFU
M54-O	POC	55-226798	1,199	33°03'6.91"N	111°26'9.22"W	668-1,199	OXIDE
M52-UBF	POC	55-226788	274	33°03'11.03"N	111°25'24.66"W	200-274	UBFU
M55-UBF	Monitor	55-226797	261	33°03'1.99"N	111°26'6.18"W	240-261	UBFU
M56-LBF	Monitor	55-226795	340	33°03'2.21"N	111°26'6.44"W	320-340	LBFU
M57-O	Monitor	55-226790	1,200	33°03'1.88"N	111°26'8.39"W	523-1,200	OXIDE
M58-O	Monitor	55-226794	1,200	33°03'5.20"N	111°26'4.94"W	594-1,200	OXIDE
M59-O	Monitor	55-226791	1,200	33°03'1.58"N	111°26'2.25"W	534-1,200	OXIDE
M60-O	Monitor	55-226796	1,201	33°02'58.70"N	111°26'5.78"W	444-1,201	OXIDE
M61-LBF	Monitor	55-226799	630	33°03'0.85"N	111°25'58.92"W	429-630	LBFU
MW-01-LBF	Operational	55-226789	440	33°03'02.9442"N	111°26'07.1046"W	330-440	LBFU
MW-01-O	Operational	55-226793	1,200	33°03'03.045"N	111°26'06.9786"W	500-1,200	OXIDE
New Wells Constructed or Replaced							
M57R-O	Monitor	55-229751	1,200	33°03'0.31"N	111°26'8.16"W	550-1,200	OXIDE

Notes:

ADWR = Arizona Department of Water Resources

ft bgs = feet below ground surface

LBFU = lower basin fill unit

POC = point of compliance

UBFU = upper basin fill unit

UIC = Underground Injection Control

TABLE 2
SUMMARY OF QUARTERLY WATER LEVELS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Location ID	Date	Depth to Water (feet)	Description of Measuring Point	Elevation of Measuring Point (feet amsl)	Water Level Elevation (feet amsl)
M14-GL	02/09/2022	234.75	TOC	1476.53	1241.78
M14-GL	02/23/2022	237.27	TOC	1477.12	1239.85
M15-GU	02/09/2022	229.70	TOC	1476.53	1246.83
M15-GU	02/23/2022	232.47	TOC	1476.53	1244.06
M22-O	01/17/2022	234.85	TOM	1478.58	1243.73
M22-O	02/09/2022	237.38	TOM	1478.58	1241.20
M22-O	02/16/2022	237.12	TOM	1478.58	1241.46
M22-O	03/03/2022	236.94	TOM	1478.58	1241.64
M23-UBF	02/09/2022	221.15	TOM	1477.61	1256.46
M23-UBF	02/23/2022	221.13	TOM	1477.61	1256.48
M52-UBF	02/09/2022	233.52	TOC	1485.04	1251.52
M52-UBF	02/17/2022	234.06	TOC	1485.04	1250.98
M54-LBF	02/09/2022	235.11	TOC	1481.92	1246.81
M54-LBF	02/10/2022	234.86	TOC	1481.92	1247.06
M54-O	01/17/2022	251.30	TOC	1482.47	1231.17
M54-O	02/09/2022	254.50	TOC	1482.47	1227.97
M54-O	02/14/2022	252.39	TOC	1482.47	1230.08
M54-O	03/03/2022	253.83	TOC	1482.47	1228.64
M55-UBF	02/09/2022	230.54	TOC	1479.14	1248.60
M55-UBF	02/15/2022	230.57	TOC	1479.14	1248.57
M56-LBF	02/09/2022	234.79	TOC	1478.65	1243.86
M56-LBF	02/15/2022	234.95	TOC	1478.65	1243.70
M57-O	01/17/2022	251.70	TOC	1478.71	1227.01
M57-O	02/09/2022	255.20	TOC	1478.71	1223.51
M57-O	02/22/2022	255.65	TOC	1478.71	1223.06
M57-O	03/03/2022	254.31	TOC	1478.71	1224.40
M57R-O	01/17/2022	249.81	TOC	1478.29	1228.48
M57R-O	02/09/2022	253.71	TOC	1478.29	1224.58
M57R-O	02/15/2022	252.19	TOC	1478.29	1226.10
M57R-O	03/03/2022	252.79	TOC	1478.29	1225.50
M58-O	01/17/2022	250.55	TOC	1481.08	1230.53
M58-O	02/09/2022	253.58	TOC	1481.08	1227.50
M58-O	02/14/2022	252.25	TOC	1481.08	1228.83
M58-O	03/02/2022	252.09	TOC	1481.08	1228.99
M59-O	01/13/2022	266.49	TOC	1480.19	1213.70
M59-O	01/17/2022	266.69	TOC	1480.19	1213.50
M59-O	02/07/2022	267.60	TOC	1480.19	1212.59
M59-O	02/09/2022	267.95	TOC	1480.19	1212.24
M59-O	03/02/2022	266.20	TOC	1480.19	1213.99
M59-O	03/03/2022	268.51	TOC	1480.19	1211.68
M60-O	01/12/2022	244.59	TOC	1477.36	1232.77
M60-O	01/17/2022	243.23	TOC	1477.36	1234.13
M60-O	02/09/2022	247.25	TOC	1477.36	1230.11
M60-O	03/03/2022	246.49	TOC	1477.36	1230.87
M61-LBF	02/09/2022	245.49	TOC	1480.78	1235.29
M61-LBF	02/14/2022	243.82	TOC	1480.78	1236.96
MW-01-LBF	02/09/2022	233.37	TOC	1478.92	1245.55
MW-01-LBF	02/10/2022	233.32	TOC	1478.92	1245.60
MW-01-O	01/12/2022	251.88	TOC	1479.07	1227.19
MW-01-O	01/17/2022	251.58	TOC	1479.07	1227.49
MW-01-O	02/09/2022	254.77	TOC	1479.07	1224.30
MW-01-O	02/10/2022	253.60	TOC	1479.07	1225.47
MW-01-O	03/02/2022	254.11	TOC	1479.07	1224.96
MW-01-O	03/03/2022	254.01	TOC	1479.07	1225.06
Mine Shaft	01/17/2022	NM	TOS	1480.40	NM
Mine Shaft	02/09/2022	240.17	TOS	1480.40	1240.23
Mine Shaft	03/03/2022	238.48	TOS	1480.40	1241.92
Status of Local Production Wells					
BIA-9R	02/09/2022			Not Pumping	
BIA-10	02/09/2022			Pumping	
PW2-1	02/09/2022			Not Pumping	
WW-4	02/09/2022			Not Pumping	

Notes:

amsl = above mean sea level

NM = not measured

TOC = top of casing

TOM = top of monument

TOS = top of stickup

ATTACHMENT 6C

Groundwater Monitoring Summary

TECHNICAL MEMORANDUM

28 April 2022
File No. 133887-013

TO: Florence Copper Inc.
Brent Berg
General Manager

FROM: Haley & Aldrich, Inc.
Laura Menken, R.G.
Technical Specialist
Mark Nicholls, R.G.
Lead Hydrogeologist

SUBJECT: Florence Copper Project, Quarterly Compliance Monitoring Report Underground
Injection Control (UIC) Permit, First Quarter 2022



Haley & Aldrich, Inc. has prepared this memorandum to present the results of the quarterly compliance groundwater monitoring conducted during the first quarter (Q1) 2022 at the Florence Copper Project. The Florence Copper Project is subject to two related permits issued by the Arizona Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (USEPA).

Aquifer Protection Permit (APP) Covering the 1997-98 BHP Pilot Facilities and Future Operations:

- ADEQ APP No. P-101704 (LTF 88973) dated 30 April 2021.

UIC Permit Covering the Current Production Test Facility:

- USEPA UIC Permit No. R9UIC-AZ3-FY11-1 dated 20 December 2016.

This report presents the results of the Q1 2022 groundwater monitoring activities required by the UIC permit.

Sampling Activities

During Q1 2022, monitoring was conducted at 16 point of compliance, monitoring, and supplemental wells. Water levels were collected on 9 February 2022, and quarterly groundwater sampling was conducted between 12 January and 2 March 2022. Groundwater sampling and analysis was conducted in accordance with the requirements of Part II.F of the UIC permit.

The majority of the monitoring wells are equipped with low-flow bladder pumps. Low-flow sampling was conducted in accordance with Section 2.5.3 of the APP. Wells M14-GL and M22-O were equipped with stainless steel electric submersible pumps and were sampled by purging a minimum of three borehole volumes. No modified sampling procedures were used.

Each sample was labeled, placed in a cooler with ice, maintained at 4 degrees Celsius ($^{\circ}\text{C}$) $\pm 2^{\circ}\text{C}$, and transported under chain of custody to Turner Laboratories, Inc. (Turner) for analysis. Samples were analyzed for the quarterly (Level 1) monitoring parameters in Table 1 of the UIC permit. Sample containers collected for radiological parameter analysis were labelled and transported under chain of custody directly to Radiation Safety Engineering, Inc. who performed the analyses as a subcontractor to the primary laboratory. Note that uranium activity and adjusted gross alpha are analyzed and reported only when gross alpha results exceed 12 picocuries per liter (pCi/L).

Florence Copper Inc. (Florence Copper) has elected to monitor select analytes on a more frequent basis. Additional monitoring of wells M59-O, M60-O, and MW-01-O was performed during Q1 2022. Samples were analyzed for quarterly (Level 1) monitoring parameters and various radiological parameters as discussed further below.

Results

The results of the Q1 2022 monitoring event are presented in Tables 1 through 4 as follows:

- Table 1 – Q1 2022 Field Parameters;¹
- Table 2 – Q1 2022 Quarterly (Level 1) Analytical Parameters;
- Table 3 – Q1 2022 M59-O Monitoring Summary; and
- Table 4 – Q1 2022 M60-O Monitoring Summary.

The Q1 2022 results were compared to the alert levels (AL) and aquifer quality limits (AQL) listed in the applicable tables in Appendix K of the UIC permit and Table 4B of the document submitted to the USEPA dated 12 December 2018 and entitled *Procedures for Determining Alert Levels and Aquifer Quality Limits for Groundwater Compliance Monitoring*.

A quality assurance/quality control summary of the Q1 2022 data is provided in Appendix A.

¹ Note that turbidity was monitored as a field parameter in addition to field pH, temperature, and specific conductance, but is not required by the APP or UIC permit and is therefore not reported.

Q1 2022 AL AND AQL EXCEEDANCES

The following AL exceedances occurred in Q1 2022 and are described in more detail under the *Contingency Sampling Plans* section.

Well	AL Exceedance	Current Status
M59-O	Magnesium Sulfate Total dissolved solids Adjusted gross alpha Gross beta Radium 226 & 228 Total uranium	Voluntary* monthly monitoring ongoing
M60-O	No exceedances in Q1 2022	Voluntary* monthly monitoring discontinued
MW-01-O	Sulfate**	Voluntary* monthly monitoring discontinued

Note:
Florence Copper has elected to monitor select analytes on a more frequent basis.
** Wells M59-O, M60-O, and MW-01-O were previously included in Aquifer Protection Permit (APP) No. P-106360 where confirmed exceedances required a monthly frequency for sampling. These wells are not included in APP No. P-101704 and are located within the area of the future in-situ copper recovery (ISCR) wellfield. These wells will be abandoned before the commencement of ISCR operations. These wells are currently only regulated under the UIC, and the increased frequency is not required. Florence Copper has opted to monitor the selected parameters in these wells voluntarily on a monthly basis.*
*** The only sulfate exceedance occurred in January, so monthly monitoring of MW-01-O was discontinued.*

The following AQL exceedances occurred in Q1 2022, and are described in more detail under the *Contingency Sampling Plans* section:

Well	Aquifer Quality Limit Exceedance
M59-O	Adjusted gross alpha Gross beta Radium

Contingency Sampling Plans

Contingency sampling plan procedures consistent with Part II.H.2 of the UIC permit were implemented during Q1 2022 when initial sample results for two wells indicated one or more potential AL or AQL exceedances.

Supplemental Monitoring Well M59-O

Temporary APP No. P-106360 (LTF 80030) dated 13 February 2020 (Temporary APP) expired on 14 December 2020 and was confirmed to be no longer in effect through an ADEQ letter dated 12 February 2021. During Q4 2020, while the Temporary APP was still active, sampling frequency was increased to monthly in accordance with Section 2.6.2.4.1 for magnesium, sulfate, total dissolved solids,

uranium, gross beta, adjusted gross alpha, and radium 226 & 228. Monthly sampling was scheduled to begin in February 2021. As of Q1 2021, well M59-O is only monitored under the UIC permit. Since sampling frequency was increased to monthly sampling under the Temporary APP but was not resolved before its expiration, Florence Copper has elected to continue monitoring these analytes monthly. On 6 May 2021, Florence Copper notified the USEPA that M59-O will continue to be monitored monthly and reported within 30 days of receiving the monthly monitoring results.

In Q1 2022, well M59-O was sampled on 13 January, 7 February, and 2 March 2022. Results and exceedances are provided in the table below. All other parameters were below their respective ALs/AQLs in each sample. Florence Copper submitted monthly reports on 24 January, 25 February, and 25 March 2022.

Results for Well M59-O				
Date	Parameter	Result	UIC AL	UIC AQL
13 January 2022	Adjusted gross alpha	26.7 ± 2.1 pCi/L	15.8 pCi/L	15.8 pCi/L
7 February 2022		44.1 ± 1.9 pCi/L	15.8 pCi/L	15.8 pCi/L
2 March 2022		30.7 ± 2.3 pCi/L	15.8 pCi/L	15.8 pCi/L
13 January 2022	Gross beta	25.4 ± 2.3 pCi/L	16 pCi/L	16 pCi/L
7 February 2022		25.1 ± 2.3 pCi/L	16 pCi/L	16 pCi/L
2 March 2022		30.6 ± 2.5 pCi/L	16 pCi/L	16 pCi/L
13 January 2022	Radium-226 & 228	8.8 ± 0.6 pCi/L	6.9 pCi/L	6.9 pCi/L
7 February 2022		10.8 ± 0.6 pCi/L	6.9 pCi/L	6.9 pCi/L
2 March 2022		11.1 ± 0.6 pCi/L	6.9 pCi/L	6.9 pCi/L
13 January 2022	Magnesium	40 mg/L	23 mg/L	No AQL
7 February 2022		42 mg/L	23 mg/L	No AQL
2 March 2022		47 mg/L	23 mg/L	No AQL
13 January 2022	Sulfate	660 mg/L	202 mg/L	No AQL
7 February 2022		650 mg/L	202 mg/L	No AQL
2 March 2022		680 mg/L	202 mg/L	No AQL
13 January 2022	Total dissolved solids	1,400 mg/L	854 mg/L	No AQL
7 February 2022		1,500 mg/L	854 mg/L	No AQL
2 March 2022		1,600 mg/L	854 mg/L	No AQL
13 January 2022	Total Uranium	0.0098 mg/L	0.0052 mg/L	No AQL
7 February 2022		0.012 mg/L	0.0052 mg/L	No AQL
2 March 2022		0.027 mg/L	0.0052 mg/L	No AQL

Notes:

Bold = Exceedances
AL = alert level
AQL = aquifer quality limit
mg/L = milligrams per liter
pCi/L = picocuries per liter
UIC = Underground Injection Control

Florence Copper will continue voluntary monthly sampling and reporting until analytes are below their ALs and AQLs.

Supplemental Monitoring Well M60-O

Monthly monitoring of gross alpha at well M60-O began in January 2020 due to a Temporary APP AL exceedance of gross alpha confirmed in Q4 2019. The Temporary APP expired on 14 December 2020 and was confirmed to be no longer in effect through an ADEQ letter dated 12 February 2021. As of Q1 2021, well M60-O is only permitted under the UIC permit. Since sampling frequency was increased to monthly sampling under the Temporary APP but was not resolved before its expiration, Florence Copper elected to continue monitoring these analytes monthly. On 3 June 2021, Florence Copper notified the USEPA that well M60-O will continue to be monitored monthly and reported within 30 days of receiving the monthly monitoring results.

In April 2021, due to an exceedance in a quarterly sample, radon was added to the monthly parameter list. In August and September 2021, adjusted gross alpha results were below the UIC AL and AQL in the monthly samples. As a result, Florence Copper discontinued monthly sampling of adjusted gross alpha starting in Q4 2021.

In Q1 2022, a sample was collected from M60-O on 12 January 2022. All parameters, including radon, were below their applicable UIC ALs and AQLs. Florence Copper notified the USEPA in a letter dated 1 February 2022, they have elected to discontinue voluntary monthly sampling of M60-O. Monitoring at M60-O will continue on a quarterly basis.

Operational Monitoring Well MW-01-O

In response to an exceedance of sulfate in Q4 2021, Florence Copper elected to initiate voluntary monthly sampling at MW-01-O starting in December 2021.

In Q1 2022, well MW-01-O was sampled on 12 January, 10 February, and 2 March 2022. Results and exceedances are provided in the table below. All other parameters were below their respective ALs/AQLs in each sample. Florence Copper submitted monthly reports on 7 January, 7 February and 4 March 2022.

Results for Well MW-01-O				
Date	Parameter	Result	UIC AL	UIC AQL
12 January 2022	Sulfate	240 mg/L	229 mg/L	No AQL
10 February 2022		220 mg/L	229 mg/L	No AQL
2 March 2022		200 mg/L	229 mg/L	No AQL

Notes:

Bold = Exceedances

AL = alert level

AQL = aquifer quality limit

mg/L = milligram per liter

UIC = Underground Injection Control

In February and March 2022, sulfate results for the monthly samples were below the UIC AL. With all parameters below their applicable UIC ALs and AQLs, Florence Copper elected to discontinue voluntary monthly monitoring of MW-01-O. Florence Copper notified the USEPA of the change in their monthly report on 4 March 2022. Monitoring at MW-01-O will continue on a quarterly basis.

Enclosures:

- Table 1 – Q1 2022 Field Parameters
- Table 2 – Q1 2022 Quarterly (Level 1) Analytical Parameters
- Table 3 – Q1 2022 M59-O Monitoring Summary
- Table 4 – Q1 2022 M60-O Monitoring Summary
- Appendix A – Data Quality Assurance/Quality Control Summary Memorandum

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TABLES

TABLE 1**Q1 2022 FIELD PARAMETERS**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location	Sample Date	Temperature, Field Deg C	Temperature, Field Deg F	pH, Field pH units	pH Low UIC Alert Level pH units	pH High UIC Alert Level pH units	Specific Conductance, Field μmhos/cm
M14-GL	02/23/2022	26.8	80.2	8.26	NE	NE	909
M15-GU	02/23/2022	21.4	70.5	7.24	NE	NE	1,730
M22-O	02/16/2022	28.0	82.4	8.02	NE	NE	827
M23-UBF	02/23/2022	21.3	70.3	7.06	NE	NE	2,128
M52-UBF	02/17/2022	22.2	72.0	7.15	6.9	7.9	1,638
M54-LBF	02/10/2022	24.6	76.3	7.01	6.5	8.2	1,672
M54-O	02/14/2022	23.2	73.8	7.71	6.8	9.4	794
M55-UBF	02/15/2022	22.9	73.2	6.83	6.6	7.8	1,762
M56-LBF	02/15/2022	21.7	71.1	6.89	6.5	8.3	1,717
M57-O	02/22/2022	26.1	79.0	7.53	7.2	8.5	1,201
M57R-O	02/15/2022	23.4	74.1	7.09	NE	NE	1,621
M58-O	02/14/2022	24.1	75.4	7.31	6.2	9.0	1,652
M59-O	01/13/2022	26.2	79.2	7.37	7.0	8.7	2,120
M59-O ⁽¹⁾	02/07/2022	26.3	79.3	7.38	7.0	8.7	2,135
M59-O ⁽¹⁾	03/02/2022	26.6	79.9	7.35	7.0	8.7	2,509
M60-O	01/12/2022	22.5	72.5	7.21	6.3	9.0	1,729
M61-LBF	02/14/2022	24.9	76.8	7.71	6.8	9.4	831
MW-01-LBF	02/10/2022	24.3	75.7	7.00	6.2	8.5	1,648
MW-01-O	01/12/2022	21.5	70.7	7.28	5.8	9.4	1,905
MW-01-O ⁽²⁾	02/10/2022	23.8	74.8	7.30	5.8	9.4	1,797
MW-01-O ⁽²⁾	03/02/2022	23.4	74.1	7.47	5.8	9.4	1,882

Notes:

(1) Increased frequency monitoring conducted on 2/7/2022 and 3/2/2022

(2) Increased frequency monitoring conducted on 2/10/2022 and 3/2/2022.

μmhos/cm = micromhos per centimeter

Deg C = degrees Celsius

Deg F = degrees Fahrenheit

NE = not established

UIC = Underground Injection Control

TABLE 2

Q1 2022 QUARTERLY (LEVEL 1) ANALYTICAL PARAMETERS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Location ID	Sample Date	Sample Type	Magnesium, Dissolved		Sulfate		Fluoride			Total Dissolved Solids (TDS)	
			Concentration	UIC Alert Level	Concentration	UIC Alert Level	Concentration	UIC Alert Level	UIC AQL	Concentration	UIC Alert Level
M14-GL	02/23/2022	Primary	1.8 J	23	56	144	0.40 J	3.2	4.0	400	874
M15-GU	02/23/2022	Primary	26	44	94	126	0.29 J	3.2	4.0	880	1359
M22-O	02/16/2022	Primary	6.1	8.6	49	86	0.80	3.2	4.0	410	1094
M23-UBF	02/23/2022	Primary	27	69	210	411	0.56	3.2	4.0	1,100	2392
M52-UBF	02/17/2022	Primary	23	41	140	316	0.85	3.2	4.0	850	1502
M54-LBF	02/10/2022	Primary	23	42	150	297	0.81	3.2	4.0	900	1561
M54-O	02/14/2022	Primary	5.7	10	51	200	0.94	3.2	4.0	380	771
M54-O	02/14/2022	Duplicate	5.7	10	45	200	0.93	3.2	4.0	370	771
M55-UBF	02/15/2022	Primary	25	45	160	425	0.77	3.2	4.0	920	1711
M56-LBF	02/15/2022	Primary	25	41	140	281	0.31 J	3.2	4.0	880	1485
M57-O	02/22/2022	Primary	16	18	100	200	0.33 J	3.2	4.0	600	842
M57R-O	02/15/2022	Primary	26	35	150	230	0.45 J	3.2	4.0	810	1113
M58-O	02/14/2022	Primary	19	51	150	385	0.72	3.2	4.0	860	1539
M59-O	01/13/2022	Primary	40	23	660	202	0.49 J	3.2	4.0	1,400	854
M59-O ⁽¹⁾	02/07/2022	Primary	42	23	650	202	0.56	3.2	4.0	1,500	854
M59-O ⁽¹⁾	03/02/2022	Primary	47	23	680	202	0.35 J	3.2	4.0	1,600	854
M60-O	01/12/2022	Primary	25	45	180	271	< 0.18	3.2	4.0	890	1314
M61-LBF	02/14/2022	Primary	7.1	12	50	200	0.76	3.2	4.0	410	769
MW-01-LBF	02/10/2022	Primary	24	43	170	307	0.45 J	3.2	4.0	880	1543
MW-01-O	01/12/2022	Primary	31	42	240	229	0.25 J	3.2	4.0	1,000	1409
MW-01-O ⁽²⁾	02/10/2022	Primary	30	42	220	229	0.45 J	3.2	4.0	1,000	1409
MW-01-O ⁽²⁾	03/02/2022	Primary	31	42	200	229	0.25 J	3.2	4.0	980	1409
Arizona Aquifer Water Quality Standard ⁽³⁾			--	--	--	--	4.0	--	--	--	--

Notes:

(1) Increased frequency monitoring conducted on 2/7/2022 and 3/2/2022

(2) Increased frequency monitoring conducted on 2/10/2022 and 3/2/2022.

(3) Arizona Aquifer Water Quality Standard (AWQS), Drinking Water Standard, 31 December 2016.

Alert Level Exceedance

All results in milligrams per liter (mg/L)

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

AQL = Aquifer Quality Limit

UIC = Underground Injection Control Permit No. R9UIC-AZ3-FY11-1

TABLE 3
Q1 2022 M59-O MONITORING SUMMARY
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Parameter	Unit	UIC Alert Level	UIC AQL	M59-O	M59-O	M59-O
				01/13/2022	02/07/2022	03/02/2022
				Primary	Primary	Primary
Level 1 Parameters						
Magnesium, Dissolved	mg/L	23	--	40	42	47
Sulfate	mg/L	202	--	660	650	680
Fluoride	mg/L	3.2	4	0.49 J	0.56	0.35 J
Total Dissolved Solids (TDS)	mg/L	854	--	1,400	1,500	1,600
Inorganic Parameters						
Uranium, Total	mg/L	0.0052	--	0.0098	0.012	0.027
Radionuclide Parameters						
Gross Alpha Analytes	pCi/L	--	--	33.2 ± 1.9	50.7 ± 1.7	40.2 ± 2.1
Gross Alpha Analytes Adjusted	pCi/L	15.8	15.8	26.7 ± 2.1	44.1 ± 1.9	30.7 ± 2.3
Gross Beta Analytes	pCi/L	16	16	25.4 ± 2.3	25.1 ± 2.3	30.6 ± 2.5
Radium-226	pCi/L	--	--	5.2 ± 0.4	6.7 ± 0.4	6.4 ± 0.4
Radium-226 & 228	pCi/L	6.9	6.9	8.8 ± 0.6	10.8 ± 0.6	11.1 ± 0.6
Radium-228	pCi/L	--	--	3.6 ± 0.4	4.1 ± 0.4	4.7 ± 0.4
Total Uranium	pCi/L	--	--	6.5 ± 0.9	6.6 ± 0.9	9.5 ± 1
Uranium-234	pCi/L	--	--	3.5 ± 0.5	3.3 ± 0.4	5.1 ± 0.6
Uranium-235	pCi/L	--	--	0.137 ± 0.003	0.143 ± 0.003	0.196 ± 0.003
Uranium-238	pCi/L	--	--	2.9 ± 0.4	3.1 ± 0.4	4.2 ± 0.5
Total Uranium Content	ug/L	--	--	8.8 ± 1.2	9.2 ± 1.2	12.6 ± 1.5
Uranium-234	ug/L	--	--	$0.00056 \pm 7e-005$	$0.00054 \pm 7e-005$	$0.00081 \pm 9e-005$
Uranium-235	ug/L	--	--	0.064 ± 0.001	0.067 ± 0.001	0.092 ± 0.002
Uranium-238	ug/L	--	--	8.7 ± 1.2	9.1 ± 1.2	12.5 ± 1.5

Notes:

Alert Level Exceedance

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

μg/L = micrograms per liter

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

pCi/L = picocuries per liter

UIC = Underground Injection Permit No. R9UIC-AZ3-FY11-1

TABLE 4
Q1 2022 M60-O MONITORING SUMMARY
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Parameter	Units	UIC Alert Level	UIC AQL	M60-O
				1/12/2022
				Primary
Level 1 Parameters				
Magnesium, Dissolved	mg/L	45	--	25
Sulfate	mg/L	271	--	180
Fluoride	mg/L	3.2	4.0	< 0.18
Total Dissolved Solids (TDS)	mg/L	1314	--	890
Radionuclide Parameters				
Radon-222	pCi/L	2480	--	2371.0 ± 239.0

Notes:

Detects are **bolded**

Non-detects are reported to the laboratory method detection limit (< MDL)

AQL = Aquifer Quality Limit

mg/L = milligrams per liter

pCi/L = picocuries per liter

UIC = Underground Injection Permit No. R9UIC-AZ3-FY11-1

APPENDIX A

Data Quality Assurance/Quality Control Summary Memorandum



HALEY & ALDRICH, INC.
One Arizona Center
400 E. Van Buren St., Suite 545
Phoenix, AZ 85004
602.760.2450

MEMORANDUM

28 April 2022
File No. 133887-013

TO: Haley & Aldrich, Inc.
Laura Menken, R.G.

FROM: Haley & Aldrich, Inc.
Alexis Rainery, Engineer
Katherine Miller, Project Manager

SUBJECT: Appendix A – Data Quality Assurance/Quality Control Summary

Analytical results for environmental samples collected during the first quarter 2022 compliance monitoring event were verified in accordance with guidance provided by the U.S. Environmental Protection Agency (USEPA).¹ For each laboratory data package, the following quality control/quality assurance criteria from the analysis of the project samples were reviewed:

- Completeness with the chain of custody (COC);
- Comparison of reporting limits to alert levels (AL) and aquifer quality limits (AQL);
- Holding times/preservation;
- Blank sample analysis;
- Laboratory control samples;
- Matrix spike samples;
- Laboratory and field duplicate sample analysis; and
- Verification of laboratory report data.

Sample data were qualified by the laboratory in accordance with laboratory standard operating procedures (SOP). Based on a check of the data qualifiers assigned to the project sample results, these flags were applied to the reported results in accordance with the laboratory-specific SOP.

¹ USEPA, 2012. USEPA Region 9 Guidance for Quality Assurance Program Plans, R9QA/03.2. March.

COMPLETENESS WITH CHAIN OF CUSTODY

Samples were collected, preserved, and shipped following standard COC protocol. Samples were also received appropriately, identified correctly, and analyzed according to the COC. COCs were appropriately signed and dated by the field and/or laboratory personnel. The following exceptions were noted:

- For SDG 22A0391, Florence Copper Inc. (Florence Copper) did not sign to receive the samples from Haley & Aldrich staff. They did sign to relinquish them to the laboratory.
- For SDG 22C0139, the laboratory signed the COC twice, once to receive the samples and again to relinquish them. However, there was no sub-contracted laboratory and the samples were not relinquished a second time.
- For SDGs 22A0391, 22A0345, 22B0270, and 22C0138, the second COC is missing a relinquished signature from the primary lab. However, the primary laboratory is identified in the first COC as having received the samples from Florence Copper staff.

REPORTING LIMITS

The reporting limits and/or method detection limits were at or below the applicable ALs and AQLs.

HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified as per each method's protocol with the following exceptions:

Laboratory Report	Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
22B0537	All methods	Water	Various	Cool to ≤ 6°C	The cooler containing the following sample was received warm at 7.1 degrees Celsius (°C): M22-O-021622
22C0138	All methods	Water	Various	Cool to ≤ 6°C	The cooler containing the following sample was received warm at 8.6°C: M59-O
22C0139	All methods	Water	Various	Cool to ≤ 6°C	The cooler containing the following samples were received warm at 8.6°C: M4-O-030222 MW-01-O-030222
22A0391	All methods	Water	Various	Cool to ≤ 6 °C	The cooler containing the following sample was received warm at 6.9 degrees Celsius (°C): M59-O-011322

BLANK SAMPLE ANALYSIS

Method blank samples had no detections, indicating that no contamination from laboratory activities occurred with the following exceptions:

Laboratory Report(s)	Associated Sample ID(s)	Batch ID	Analyte Detected in Method Blank	Concentration (mg/L, unless noted)
22B0670	M30-O-022222 M6-GU-022222 M7-GL-022222 M8-O-022222	2202246	Magnesium	0.11 J mg/L
22B0671	M103-022322 M14-GL-022322 M15-GU-022322 M23-UBF-022322 P19-1-O-022322	2202246	Magnesium	0.11 J mg/L

LABORATORY CONTROL AND MATRIX SPIKE SAMPLES

Compounds associated with the laboratory control sample, matrix spike, and matrix spike duplicate analyses exhibited recoveries and relative percent differences (RPD) within the specified limits.

LABORATORY AND FIELD DUPLICATE SAMPLES

The RPDs for laboratory duplicate analysis were all below 20 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The following sample(s) were collected for field duplicate analysis and the RPDs were all below 35 percent for water (or the absolute difference rule was satisfied if detects were less than 5 times the reporting limit).

Primary Sample ID	Duplicate Sample ID	Methods for Which Field Duplicates Were Analyzed
M54-O-021422	M101-021422	Anions by USEPA 300.0 Metals by USEPA 200.7 & 200.8 Total dissolved solids by SM 2540C
Notes:		
SM = Standard Method		
USEPA = U.S. Environmental Protection Agency		

VERIFICATION OF LABORATORY REPORT DATA

A minimum of 10 percent of the data reported by the laboratory were verified against the electronic data deliverables.

\haleyaldrich.com\share\phx_common\Projects\Florence Copper\133887 Quarterly Monitoring\Deliverables\1Q 2022 Reports\UIC Report\Attachments\UIC 6C - Quarterly Compliance Monitoring Report\Appendix A UIC QA_QC Summary Q1_2022_D3.docx

ATTACHMENT 7

Results of Monthly Lixiviant Organic Analysis

TABLE 1**MONTHLY LIXIVIANT (RAFFINATE) MONITORING RESULTS**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Analyte	Units	Sample Date		
		1/13/2022	2/7/2022	3/23/2022
Benzene	mg/L	<0.0005	<0.0005	<0.0005
Ethylbenzene	mg/L	<0.0005	<0.0005	<0.0005
Naphthalene	mg/L	<0.002	<0.002	<0.002
n-Octane	mg/L	<0.0005	<0.0005	<0.0005
Toluene	mg/L	<0.0005	<0.0005	<0.0005
Xylenes, Total	mg/L	<0.0015	<0.0015	<0.0015
TPH-Diesel	mg/L	<0.10	<0.10	<0.10
Total Organics	mg/L	<0.1	<0.1	<0.1
Maximum Allowable Average Total Organics	mg/L	10	10	10

Notes:*mg/L = milligrams per liter**TPH = total petroleum hydrocarbons*

ATTACHMENT 8

Results of Mechanical Integrity Testing

TABLE 1**Q1 2022 MECHANICAL INTEGRITY TESTS**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Q1 2022 Mechanical Integrity Tests			
Well ID	Temperature Log Date	Pressure Test Date	Pass (P) Fail (F)
WB-01	2/23/2022	--	P
WB-02	2/23/2022	--	P
WB-03	2/23/2022	--	P
WB-04	2/23/2022	--	P

Notes:*Temperature log report sent to EPA under separate cover.*

ATTACHMENT 9

Results of Annular Conductivity Device Monitoring



ANNULAR CONDUCTIVITY DATA QA PROCEDURE & DOCUMENTATION FORM (V.1)

GENERAL

HGI Project Name: 2018-030 - FCP Bulk & Annular Conductivity Monitoring	Project Site: Florence Copper Project	Weather Conditions: WINDY, 65°F, SUNNY
Date 11/11/2022	Field Operator Name: C. BALDYKA	Start and End Time: 1240 1340

EQUIPMENT

		DIAGNOSTICS	MEASUREMENT SETTINGS
(See back of sheet for detailed instructions and procedures)			

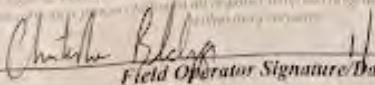
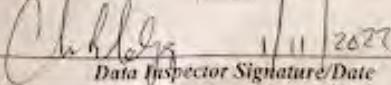
AGI MiniSting (MS) Serial #: S0608049
HGI Cray Interface Panel SN#: CR-ES-002

6Ω Resistor Standard	• No. Cycles: 4
Result: 6.462	• Max Error: OFF
Pass Criteria: 6.25Ω ± 0.30	• Max Current: 20mA
Circle One: Pass or Fail	• Measure Time: 3.6
	• Measure mode: RESISTANCE

DATA COLLECTION:

WELL ID	Time (24h)	Current (1 mA)	1			2			3			Data Acceptance Pass = P, Fail = F
			Reading	Resistance (ΔV = Ω)	Error (σ = %)	Reading	Resistance (ΔV = Ω)	Error (σ = %)	Reading	Resistance (ΔV = Ω)	Error (σ = %)	
1 WB-04	1250	20	1	60.68	1.1	2	59.95	2.3	3	59.73	2.5	P
2 WB-03	1257	20	4	77.41	0.8	5	75.56	1.1	6	74.71	1.3	P
3 WB-02	1300	20	7	79.09	2.2	8	79.79	2.5	9	79.94	2.6	P
4 WB-OV	1303	20	10	52.60	1.4	11	50.79	0.7	12	49.97	0.8	P
5 B-01	1308	20	13	71.35	0.7	14	71.12	0.9	15	71.12	1.0	P
6 B-07	1312	20	16	61.99	0.2	17	61.45	0.6	18	61.34	0.8	P
7 B-06	1315	20	19	57.34	1.2	20	55.34	1.0	21	54.50	1.2	P
8 B-05	1320	20	22	89.64	0.3	23	88.82	0.5	24	88.52	0.6	P
9 B-04	1324	20	25	53.13	1.5	21	51.24	0.6	22	50.66	0.7	P
10 B-03	1328	20	28	60.70	1.1	29	58.31	1.7	30	58.71	1.3	P
11 B-02	1332	20	31	64.23	1.6	32	64.35	1.8	33	64.27	1.9	P

Well ID's that begin with a "B" correspond to the wells that begin with an "O" in standard reporting. For example, B-01 corresponds to O-01.

DATA QUALITY ACCEPTANCE			FIELD OBSERVATIONS		
Measurement Error Evaluation Pass Criteria: 66% (2/3) of measurement error values less than 5%			<small>(Directly above site-specific criteria of site maximum, some solar/electro array, or other parameter/limit may influence findings)</small> SAMPLING BY HALEY ALDRICH AIRLIFTING C PW-05		
SIGNATURES					
<small>As signature, I declare that the data contained in this document is true and accurate to the best of my knowledge and belief.</small>  Field Operator Signature/Date 11/11/2022			<small>As signature, I declare that the data contained in this document is true and accurate to the best of my knowledge and belief.</small>  Data Inspector Signature/Date 11/11/2022		

ATTACHMENT 10

Summary of Plugging and Abandonment
(Placeholder – Not Applicable for this Monitoring Period)

ATTACHMENT 11

Table of Monthly Casing Annulus and Injection Pressures

Q1 2022 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

PAGE 1 OF 3

Table 1. January 2022 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
1/1/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	8.03	6.38	9.58	112.89		
1/2/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	8.46	2.80	16.96	112.89		
1/3/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	9.12	3.22	21.06	112.89		
1/4/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	14.82	7.26	26.48	112.89		
1/5/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	25.34	23.36	28.27	112.89		
1/6/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	31.01	17.03	43.66	112.89		
1/7/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	38.77	26.40	43.66	112.89		
1/8/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	18.44	16.83	29.79	112.89		
1/9/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	19.30	18.38	20.22	112.89		
1/10/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	27.13	19.69	33.57	112.89		
1/11/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	24.66	21.73	30.41	112.89		
1/12/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	22.25	20.57	25.83	112.89		
1/13/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	28.38	25.09	33.02	112.89		
1/14/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	21.53	13.48	33.02	112.89		
1/15/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	18.70	14.36	23.79	112.89		
1/16/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	16.78	15.04	19.21	112.89		
1/17/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	19.75	9.05	29.98	112.89		
1/18/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.39	8.40	32.80	112.89		
1/19/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	17.83	14.85	25.41	112.89		
1/20/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	22.79	13.30	29.26	112.89		
1/21/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	31.56	17.95	55.47	112.89		
1/22/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	31.84	27.56	37.52	112.89		
1/23/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	34.37	30.79	35.58	112.89		
1/24/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	35.46	30.37	42.28	112.89		
1/25/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	35.46	30.37	42.28	112.89		
1/26/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	33.14	27.27	41.19	112.89		
1/27/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	32.96	30.56	39.18	112.89		
1/28/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	34.06	27.06	38.99	112.89		
1/29/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	33.02	28.25	39.65	112.89		
1/30/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	32.09	31.01	35.39	112.89		
1/31/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	33.33	19.23	35.80	112.89		

Notes:

All measurements is pounds per square inch (psi)

NM = Not measured or otherwise not available

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

P-Wellhead = P-TOS - P-Col = [P-Frac x D-TOS] - [D-TOS / Conv] Where:

P-Fracture = Pressure allowed at the top of the injection well screen (TOS) = 0.65 psi/foot of depth

D-TOS = Depth to top of injection well screens = 520 feet

P-TOS = Total pressure allowed at top of screen = P-Fracture x D-TOS = 0.65 psi/foot x 520 feet = 338 psi

Conv = Feet of Water per psi = 2.31 feet/psi

P-Col = Pressure from weight of water column at TOS = 520 feet / 2.31 feet/psi = 225.11 psi

P-Wellhead = Allowable pressure at the top of the wellhead = P-TOS - P-Col = 338 psi - 255.1 psi = 112.89 psi

Q1 2022 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

PAGE 2 OF 3

Table 2. February 2022 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
2/1/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	33.71	29.79	36.77	112.89		
2/2/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	35.00	16.92	46.50	112.89		
2/3/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	38.84	20.19	66.68	112.89		
2/4/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	43.59	35.33	51.76	112.89		
2/5/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	53.92	50.62	55.91	112.89		
2/6/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56.95	51.55	62.24	112.89		
2/7/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	55.89	51.08	59.68	112.89		
2/8/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	58.16	54.71	59.96	112.89		
2/9/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	58.16	56.86	59.96	112.89		
2/10/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56.84	11.06	60.99	112.89		
2/11/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	55.99	17.15	60.06	112.89		
2/12/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56.22	39.01	60.73	112.89		
2/13/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56.22	39.01	60.73	112.89		
2/14/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	55.32	0.00	67.42	112.89		
2/15/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	54.25	49.30	60.17	112.89		
2/16/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	52.31	21.51	53.84	112.89		
2/17/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	53.10	21.17	60.15	112.89		
2/18/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	52.46	50.65	53.95	112.89		
2/19/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	53.49	52.49	54.30	112.89		
2/20/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51.14	42.15	54.31	112.89		
2/21/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	50.35	23.49	60.89	112.89		
2/22/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51.22	17.89	55.68	112.89		
2/23/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	52.79	39.07	53.95	112.89		
2/24/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	53.15	14.50	56.07	112.89		
2/25/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	55.49	18.84	60.10	112.89		
2/26/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	56.19	19.93	59.84	112.89		
2/27/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	54.47	51.14	60.10	112.89		
2/28/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51.02	25.40	55.68	112.89		

Notes:

All measurements is pounds per square inch (psi)

NM = Not measured or otherwise not available

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$$P\text{-Wellhead} = P\text{-TOS} - P\text{-Col} = [P\text{-Frac} \times D\text{-TOS}] - [D\text{-TOS} / Conv] \text{ Where:}$$

$$P\text{-Frac} = \text{Pressure allowed at the top of the injection well screen (TOS)} = 0.65 \text{ psi/foot of depth}$$

$$D\text{-TOS} = \text{Depth to top of injection well screens} = 520 \text{ feet}$$

$$P\text{-TOS} = \text{Total pressure allowed at top of screen} = P\text{-Frac} \times D\text{-TOS} = 0.65 \text{ psi/foot} \times 520 \text{ feet} = 338 \text{ psi}$$

$$Conv = \text{Feet of Water per psi} = 2.31 \text{ feet/psi}$$

$$P\text{-Col} = \text{Pressure from weight of water column at TOS} = 520 \text{ feet} / 2.31 \text{ feet/psi} = 225.11 \text{ psi}$$

$$P\text{-Wellhead} = \text{Allowable pressure at the top of the wellhead} = P\text{-TOS} - P\text{-Col} = 338 \text{ psi} - 255.1 \text{ psi} = 82.9 \text{ psi}$$

Q1 2022 DAILY WELLHEAD PRESSURES - INJECTION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

PAGE 3 OF 3

Table 3. March 2022 Wellhead Pressures

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
3/1/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	45.72	16.51	49.45	112.89		
3/2/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	47.43	23.36	51.67	112.89		
3/3/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	45.05	41.83	47.37	112.89		
3/4/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	49.22	32.17	53.26	112.89		
3/5/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51.55	47.40	57.71	112.89		
3/6/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	52.51	50.85	54.01	112.89		
3/7/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	51.19	37.20	53.47	112.89		
3/8/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	60.87	51.49	69.30	112.89		
3/9/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	55.44	0.00	66.89	112.89		
3/10/2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	49.04	20.52	56.11	112.89		
3/11/2022	0.07	0.04	0.09	NM	NM	NM	0.00	0.00	0.03	0.01	0.00	2.08	15.84	0.00	51.48	112.89
3/12/2022	0.06	0.03	0.09	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/13/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/14/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.03	NM	NM	NM	112.89
3/15/2022	0.05	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.01	0.00	0.03	NM	NM	NM	112.89
3/16/2022	0.05	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/17/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/18/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/19/2022	0.05	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/20/2022	0.07	0.00	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/21/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/22/2022	0.05	0.03	0.08	NM	NM	NM	0.00	0.00	0.01	0.00	0.00	0.00	NM	NM	NM	112.89
3/23/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.03	0.00	0.00	0.00	NM	NM	NM	112.89
3/24/2022	0.05	0.00	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/25/2022	0.05	0.01	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/26/2022	0.05	0.01	0.07	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/27/2022	0.05	0.00	0.07	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/28/2022	0.05	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/29/2022	0.07	0.04	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/30/2022	0.06	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89
3/31/2022	0.05	0.03	0.08	NM	NM	NM	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89

Notes:

All measurements is pounds per square inch (psi)

NM = Not measured or otherwise not available

1/1 - 3/11/2022 Injection wells were used as recovery wells

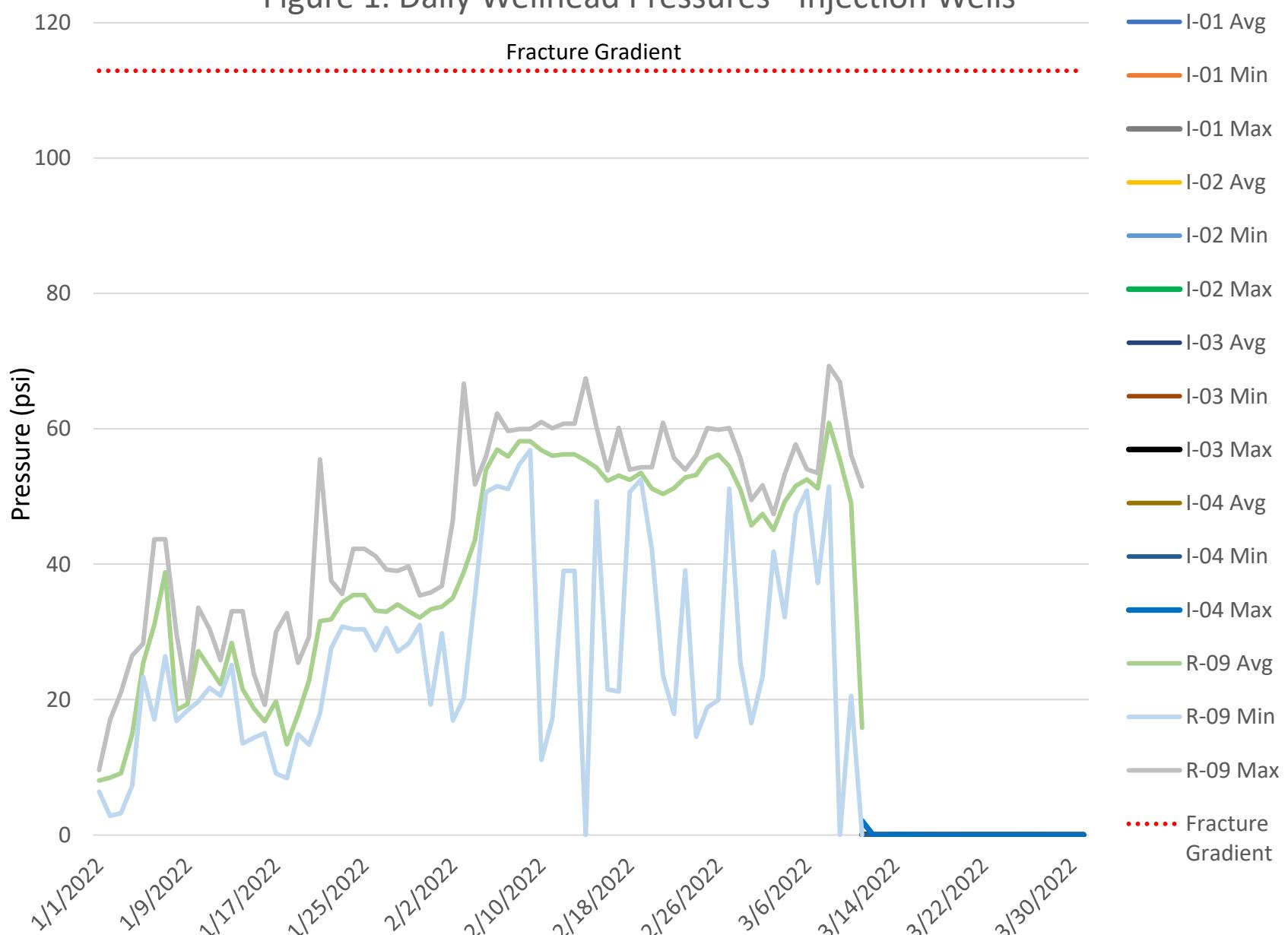
1/1 - 3/11/2022 R-09 was operated as the sole injection well

Calculation of Pressure Allowed at the Wellhead from the Allowed Fracture Gradient

$$P\text{-Wellhead} = P\text{-TOS} - P\text{-Col} = [P\text{-Frac} \times D\text{-TOS}] - [D\text{-TOS} / Conv] \text{ Where:}$$

P-Fracture	= Pressure allowed at the top of the injection well screen (TOS)	=	0.65	psi/foot of depth
D-TOS	= Depth to top of injection well screens	=	520	feet
P-TOS	= Total pressure allowed at top of screen = P-Fracture x D-TOS	=	0.65 psi/foot x 520 feet	338 psi
Conv	= Feet of Water per psi	=	2.31	feet/psi
P-Col	= Pressure from weight of water column at TOS	=	520 feet / 2.31 feet/psi	225.11 psi
P-Wellhead	= Allowable pressure at the top of the wellhead = P-TOS - P-Col	=	338 psi - 225.11 psi	112.89 psi

Figure 1. Daily Wellhead Pressures - Injection Wells



Q1 2022 - DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

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FLORENCE COPPER INC.

FLORENCE, ARIZONA

Table 4. January 2022 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max										
1/1/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/2/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/3/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/4/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/5/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/6/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/7/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/8/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/9/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/10/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/11/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/12/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/13/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/14/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/15/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/16/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/17/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/18/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/19/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/20/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/21/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/22/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/23/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/24/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/25/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/26/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/27/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/28/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/29/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/30/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
1/31/2022	NM	NM	NM	0.00	0.00	0.00	112.89									

Notes:

All measurements in pounds per square inch (psi)

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

Q1 2022 - DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

PAGE 2 OF 3

Table 5. February 2022 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max										
2/1/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/2/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/3/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/4/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/5/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/6/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/7/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/8/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/9/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/10/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/11/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/12/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/13/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/14/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/15/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/16/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/17/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/18/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/19/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/20/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/21/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/22/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/23/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/24/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/25/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/26/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/27/2022	NM	NM	NM	0.00	0.00	0.00	112.89									
2/28/2022	NM	NM	NM	0.00	0.00	0.00	112.89									

Notes:

All measurements in pounds per square inch (psi)

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

Q1 2022 - DAILY CASING ANNULUS PRESSURES - INJECTION WELLS

FLORENCE COPPER INC.

FLORENCE, ARIZONA

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Table 6. March 2022 Casing Annulus Pressure

Date	I-01			I-02			I-03			I-04			R-09			Fracture Gradient
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	
3/1/2022	NM	NM	0.00	0.00	0.00	112.89										
3/2/2022	NM	NM	0.00	0.00	0.00	112.89										
3/3/2022	NM	NM	0.00	0.00	0.00	112.89										
3/4/2022	NM	NM	0.00	0.00	0.00	112.89										
3/5/2022	NM	NM	0.00	0.00	0.00	112.89										
3/6/2022	NM	NM	0.00	0.00	0.00	112.89										
3/7/2022	NM	NM	0.00	0.00	0.00	112.89										
3/8/2022	NM	NM	0.00	0.00	0.00	112.89										
3/9/2022	NM	NM	0.00	0.00	0.00	112.89										
3/10/2022	NM	NM	0.00	0.00	0.00	112.89										
3/11/2022	NM	NM	0.00	0.00	0.00	112.89										
3/12/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/13/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/14/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/15/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/16/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/17/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/18/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/19/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/20/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/21/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/22/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/23/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/24/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/25/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/26/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/27/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/28/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/29/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/30/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	
3/31/2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	112.89	

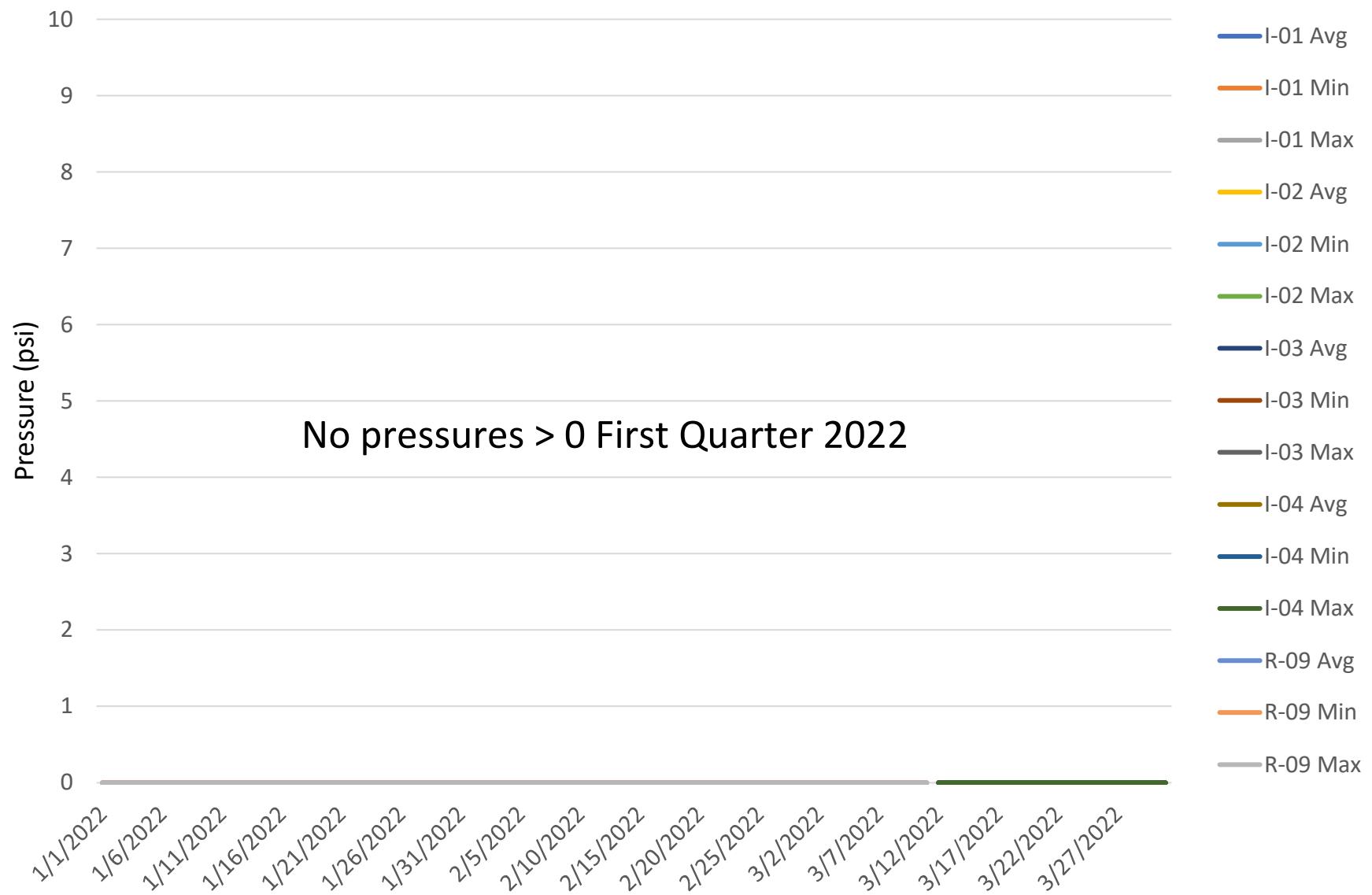
Notes:

All measurements in pounds per square inch (psi)

1/1 - 3/11/2022 Injection wells were used as recovery wells

1/1 - 3/11/2022 R-09 was operated as the sole injection well

Figure 2. Daily Casing Annulus Pressures - Injection Wells



ATTACHMENT 12

Results for Monthly Treated Water Samples

TABLE 1
Q1 2022 MONTHLY ISCR WELLFIELD WATER ANALYTICAL RESULTS
FLORENCE COPPER INC.
FLORENCE, ARIZONA

Monitoring Parameters	Maximum Ambient Water Quality ⁽¹⁾	Analytical Results		
		1/13/2022	2/7/2022	3/22/2022
Metals				
Aluminum	0.08	< 2.0	< 2.0	< 2.0
Antimony	0.0005	< 0.20	< 0.20	< 0.20
Arsenic	0.0029	< 0.040	< 0.040	< 0.040
Barium	0.11	< 0.050	< 0.050	< 0.050
Beryllium	0.0005	< 0.0020	< 0.0020	< 0.0020
Cadmium	0.0014	< 0.0020	< 0.0020	< 0.0020
Chromium	0.01	< 0.030	< 0.030	< 0.030
Cobalt	0.0081	< 0.10	< 0.10	< 0.10
Copper	1.9	0.27	1.6	1.2
Iron	0.3	< 0.30	< 0.30	< 0.30
Lead	0.001	< 0.040	< 0.040	< 0.040
Magnesium	30	< 3.0	< 3.0	< 3.0
Manganese	0.12	< 0.020	0.046	0.33
Mercury	0.001	< 0.0010	< 0.0010	< 0.0010
Molybdenum	--	< 0.010	< 0.010	< 0.010
Nickel	0.015	< 0.050	< 0.050	< 0.050
Selenium	0.0039	< 0.040	< 0.040	< 0.040
Thallium	0.001	< 0.50	< 0.50	< 0.50
Uranium	--	< 0.00050	< 0.00050	0.0015
Zinc	1.9	< 0.040	< 0.040	< 0.040
Inorganic Parameters				
Total Alkalinity	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Bicarbonate	220	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Carbonate	20	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
Hydroxide	2	NA ⁽²⁾	NA ⁽²⁾	NA ⁽²⁾
pH (pH Units)	8.7	2.71	2.61	2.49
Temperature (°C)	32.4	25.2	26.2	29.3
Conductivity	1800	1042	895	1287
Calcium	140	< 4.0	< 4.0	< 4.0
Chloride	340	93	57	110
Fluoride	0.89	0.87	0.64	0.5
Potassium	11	< 5.0	< 5.0	< 5.0
Sodium	180	< 5.0	< 5.0	< 5.0
TDS	1100	130	20	30
Nitrate (as N)	9.7	4.1	3.9	5.1
Nitrite (as N)	0.1	< 0.10	< 0.10	< 0.10
Sulfate	230	34	57	60
Organic Parameters				
Benzene	0.063	< 0.00050	< 0.00050	< 0.00050
Ethylbenzene	0.054	< 0.00050	< 0.00050	< 0.00050
Naphthalene	--	< 0.002	< 0.002	< 0.002
n-octane	--	< 0.00050	< 0.00050	< 0.00050
Toluene	0.057	< 0.00050	< 0.00050	< 0.00050
Total Xylene	0.13	< 0.0015	< 0.0015	< 0.0015
Total Petroleum Hydrocarbons - Diesel	0.17	< 0.10	< 0.090	< 0.093
Radionuclide Parameters				
Gross Alpha (pCi/L)	2.8	< 0.9	4.7 ± 1.2	< 1.9
Uranium Isotopes (total) (pCi/L)	30.2	< 0.4	1.7 ± 0.5	1.3 ± 0.4
Adjusted Gross Alpha (pCi/L)	15.4	< 0.9	3.0 ± 1.3	< 1.0
Gross Beta (pCi/L)	--	< 2.4	< 2.4	< 2.4
Radium Isotopes 226+228 (pCi/L)	6.2	< 0.6	< 0.7	< 0.7
Radon (pCi/L)	--	1595.9 ± 161.7	1662.2 ± 167.9	2262.7 ± 228.3

Notes:

(1) Maximum ambient water quality at the site pre-operation.

(2) Alkalinity analysis was not reported due to matrix interference. Sample pH was less than 4.5.

All results in milligrams per liter (mg/L) unless otherwise noted.

Non-detects are reported to the laboratory reporting limit

Radionuclide data presented as result ± uncertainty

ISCR = in-situ copper recovery

pCi/L = picocuries per liter

ATTACHMENT 13

Migratory Bird Landings

TABLE 1**Q1 2022 OBSERVED MIGRATORY BIRD LANDINGS**

FLORENCE COPPER INC.

FLORENCE, ARIZONA

Date	Migratory Bird Species	Comments:	Fatality (Y or N)
-	-	-	-

Notes:

Florence Copper personnel conduct daily inspections of the Process Solution Impoundment and BHP Pond. There were no reported migratory bird landings during Q1 2022.